



Cover: Insect herbivores depend directly on the density of their host plants and the nature of this relationship varies across time and space. Nerlekar (2018) examines this relationship across time using a tropical perennial herb, *Jatropha nana*, as a system. Seen in the photograph are the instars of the jewel bug *Chrysocoris purpureus* feeding on the fruits of *Jatropha nana*. Image provided by Ashish Nerlekar and licensed under a Creative Commons Attribution 4.0 International license.

EDITORIAL

The continuing evolution of publishing in the biological sciences
Kelly, S.
bio037325

Lessons learned: eight years at the helm of Biology Open
Raff, J. W. (Founding Editor-in-Chief, Biology Open)
bio037317

RESEARCH ARTICLES

Identification of axolotl BH3-only proteins and expression in axolotl organs and apoptotic limb regeneration tissue
Bucan, V., Peck, C.-T., Nasser, I., Liebsch, C., Vogt, P. M. and Strauß, S.
bio036293

Divergent *Hemogen* genes of teleosts and mammals share conserved roles in erythropoiesis: analysis using transgenic and mutant zebrafish
Peters, M. J., Parker, S. K., Grim, J., Allard, C. A. H., Levin, J. and Detrich, H. W., III
bio035576

Anomalies in the valve morphogenesis of the centric diatom alga *Aulacoseira islandica* caused by microtubule inhibitors
Bedoshvili, Y., Gneusheva, K., Popova, M., Morozov, A. and Likhoshway, Y.
bio035519

Role of murine macrophage in temporal regulation of cortisol- and serotonin-induced adipogenesis in pre-adipocytes when grown together
Priyadarshini, S., Pradhan, B. and Aich, P.
bio034629

Mammalian embryo comparison identifies novel pluripotency genes associated with the naïve or primed state
Bernardo, A. S., Jouneau, A., Marks, H., Kensche, P., Kobolak, J., Freude, K., Hall, V., Feher, A., Polgar, Z., Sartori, C., Bock, I., Louet, C., Faial, T., Kerstens, H. H. D., Bouissou, C., Parsonage, G., Mashayekhi, K., Smith, J. C., Lazzari, G., Hyttel, P., Stunnenberg, H. G., Huynen, M., Pedersen, R. A. and Dinnyes, A.
bio033282

Coupling integrin dynamics to cellular adhesion behaviors
Galbraith, C. G., Davidson, M. W. and Galbraith, J. A.
bio036806

Centrioles without microtubules: a new morphological type of centriole
Uzbekov, R., Garanina, A. and Bressac, C.
bio036012

Seasonally dependent relationship between insect herbivores and host plant density in *Jatropha nana*, a tropical perennial herb
Nerlekar, A. N.
bio035071

Identification of additional regulatory RNPs that impact rRNA and U6 snRNA methylation
Burke, M. F., Logan, M. K. and Hebert, M. D.
bio036095

Involvement of PKC ϵ in FSH-induced connexin43 phosphorylation and oocyte maturation in mouse
Cai, H., Liu, B., Yang, T., Yang, Y., Xu, J., Wei, Z., Deng, G., Ning, G., Li, J., Wen, J., Liu, W., Ni, Z., Ma, Y., Zhang, M., Zhou, B., Xia, G., Ouyang, H. and Wang, C.
bio034678

Human trophoblasts are primarily distinguished from somatic cells by differences in the pattern rather than the degree of global CpG methylation
Gamage, T. K. J. B., Schierding, W., Tsai, P., Ludgate, J. L., Chamley, L. W., Weeks, R. J., Macaulay, E. C. and James, J. L.
bio034884

Biochemical and histological evidence of deteriorated bioprosthetic valve leaflets: the accumulation of fibrinogen and plasminogen
Sakaue, T., Nakaoka, H., Shikata, F., Aono, J., Kurata, M., Uetani, T., Hamaguchi, M., Kojima, A., Uchita, S., Yasugi, T., Higashi, H., Suzuki, J., Ikeda, S., Higaki, J., Higashiyama, S. and Izutani, H.
bio034009

The *STK35* locus contributes to normal gametogenesis and encodes a lncRNA responsive to oxidative stress
Miyamoto, Y., Whiley, P. A. F., Goh, H. Y., Wong, C., Higgins, G., Tachibana, T., G. McMenamin, P., Mayne, L. and Loveland, K. L.
bio032631

Progressive adaptation of whole-limb kinematics after peripheral nerve injury
Chang, Y.-H., Housley, S. N., Hart, K. S., Nardelli, P., Nichols, R. T., Maas, H. and Cope, T. C.
bio028852

EB1 contributes to microtubule bundling and organization, along with root growth, in *Arabidopsis thaliana*
Molines, A. T., Marion, J., Chabout, S., Besse, L., Dompierre, J. P., Mouille, G. and Coquelle, F. M.
bio030510

Ectopic otoconial formation in the lagena of the pigeon inner ear
Malkemper, E. P., Mason, M. J., Kagerbauer, D., Nimpf, S. and Keays, D. A.
bio034462

METHODS AND TECHNIQUES

Efficient genome editing using CRISPR/Cas9 ribonucleoprotein approach in cultured Medaka fish cells
Liu, Q., Yuan, Y., Zhu, F., Hong, Y. and Ge, R.
bio035170

CORRECTION

Correction: Characterization of a *cdc14* null allele in *Drosophila melanogaster* (doi:10.1242/bio.035394)
Neitzel, L., Broadus, M., Zhang, N., Sawyer, L., Wallace, H., Merkle, J., Jodoin, J., Sitaram, P., Crispi, E., Rork, W., Lee, L., Pan, D., Gould, K., Page-McCaw, A. and Lee, E.
bio037705