



**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**  
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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.**  
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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 $\epsilon$  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.**  
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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