



Cover: Pictured is an adult African elephant flexing their muscular hydrostat trunk at Zoo Atlanta in Atlanta, GA, USA. The elephant trunk is an extension of the upper lip and inspiration for many types of new and innovative scientific discoveries. Read about the discoveries in the paper by Schulz et al. Photo taken by Zoo Atlanta/Adam K. Thompson. Creative Commons Attribution 4.0 International license.

A YEAR AT THE FOREFRONT

A Year at the Forefront of Gliding Locomotion
Khandelwal, P. C., Zakaria, M. A. and Socha, J. J.
bio059973

A Year at the Forefront of Hydrostat Motion
Schulz, A. K., Schneider, N., Zhang, M. and Singal, K.
bio059834

FUTURE LEADER REVIEW

Basement membrane dynamics and mechanics in tissue morphogenesis
Töpfer, U.
bio059980

RESEARCH ARTICLES

Preferential killing of melanoma cells by a p16-related peptide
Soo, J. K., Castle, J. T. and Bennett, D. C.
bio059965

Population-level antagonism between FGF and BMP signaling steers mesoderm differentiation in embryonic stem cells
Gattiglio, M., Protzek, M. and Schröter, C.
bio059941

Low colostrum intake results in potential accumulation of peroxisome lipid substrates in vaginal tissue of 3-week-old gilts
Mills, K., Sheets, J., Teeple, K., Mann, A., Suarez-Trujillo, A., Stewart, K., Ferreira, C. and Casey, T.
bio060044

Neutrophils form extracellular traps in response to *Opisthorchis viverrini* crude antigens, which are elevated in neutrophils from opisthorchiasis patients with hepatobiliary abnormalities
Watakulsin, K., Chuenchom, C., Thapphan, C., Thai, T. D., Chareonsudjai, S., Faksri, K., Suttiaprapa, S., Tangkawatana, S., Sripa, B., Edwards, S. W. and Salao, K.
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Innervation of the developing kidney *in vivo* and *in vitro*
Tarnick, J., Elhendawi, M., Holland, I., Chang, Z. and Davies, J. A.
bio060001

G9a inactivation in progenitor cells with Isl1-Cre with reduced recombinase activity models aspects of Dandy-Walker complex
Chi, L., Zhong, L., Lee, D., Yu, X., Caballero, A., Nieman, B. and Delgado-Olguin, P.
bio059894

Isolation and evaluation of erythroid progenitors in the livers of larval, froglet, and adult *Xenopus tropicalis*
Omata, K., Nomura, I., Hirata, A., Yonezuka, Y., Muto, H., Kuriki, R., Jimbo, K., Ogasa, K. and Kato, T.
bio059862

Frequency-dependent avoidance movement of glass catfish in response to sinusoidal electrical stimulation and associated spiking patterns of electroreceptors
Adachi, Y. and Tateno, K.
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METHODS & TECHNIQUES

A functional sgRNA-CRISPR screening method for generating murine RET and NTRK1 rearranged oncogenes
Schubert, L., Le, A. T., Hinz, T. K., Navarro, A. C., Nelson-Taylor, S. K., Nemenoff, R. A., Heasley, L. E. and Doebele, R. C.
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Assessment of avian health status: suitability and constraints of the Zoetis VetScan VS2 blood analyser for ecological and evolutionary studies
Xiong, Y., Tobler, M., Hegemann, A. and Hasselquist, D. L.
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FIRST PERSON

First person – Kayla Mills
bio060102

First person – Kazuki Omata
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