



Cover: Eye imaginal disc from a third instar *Drosophila melanogaster* larva stained to detect the actin associated proteins Shroom (red) and Enabled (cyan) Jeffrey D. Hildebrand and colleagues how that Enabled is widely expressed throughout the imaginal disc while Shroom shows more restricted expression in the posterior cells of the morphogenetic furrow, pre-ommatidia clusters, and newly formed ommatidia. Within those cells that express both proteins, Shroom and Enabled co-localize to restricted populations of cell junctions. Anterior is to the left. Image licensed under a Creative Commons Attribution 4.0 International license.

FUTURE LEADER REVIEW

Cardiac myosin super relaxation (SRX): a perspective on fundamental biology, human disease and therapeutics

Schmid, M. and Toepfer, C. N.

bio057646

RESEARCH ARTICLES

Stability of amino acids and related amines in human serum under different preprocessing and pre-storage conditions based on iTRAQ[®]-LC-MS/MS

An, Z., Shi, C., Li, P. and Liu, L.

bio055020

Segregation of brain and organizer precursors is differentially regulated by Nodal signaling at blastula stage

Castro Colabianchi, A. M., Tavella, M. B., Boyadjian López, L. E., Rubinstein, M., Franchini, L. F. and López, S. L.

bio051797

Tetraspanin18 regulates angiogenesis through VEGFR2 and Notch pathways

Li, G. X., Zhang, S., Liu, R., Singh, B., Singh, S., Quinn, D. I., Crump, G. and Gill, P. S.

bio050096

Unique histological features of the tail skin of cotton rat (*Sigmodon hispidus*) related to caudal autotomy

Hosotani, M., Nakamura, T., Ichii, O., Irie, T., Sunden, Y., Elewa, Y. H. A., Watanabe, T., Ueda, H., Mishima, T. and Kon, Y.

bio058230

Sex differences in postprandial blood glucose and body surface temperature are contingent on flight in the fruit bat, *Cynopterus sphinx*

Nagarajan-Radha, V. and Devaraj, P. S. D.

bio053926

Smoking flies: testing the effect of tobacco cigarettes on heart function of *Drosophila melanogaster*

Santalla, M., Pagola, L., Gómez, I., Balcazar, D., Valverde, C. A. and Ferrero, P.

bio055004

Single-cell sequencing reveals the potential oncogenic expression atlas of human iPSC-derived cardiomyocytes

Ou, M., Zhao, M., Li, C., Tang, D., Xu, Y., Dai, W., Sui, W., Zhang, Y., Xiang, Z., Mo, C., Lin, H. and Dai, Y.

bio053348

Quantified growth of the human embryonic heart

Faber, J. W., Hagoort, J., Moorman, A. F. M., Christoffels, V. M. and Jensen, B.

bio057059

Dissecting dynamics and differences of selective pressures in the evolution of human pigmentation

Huang, X., Wang, S., Jin, L. and He, Y.

bio056523

A method to culture human alveolar rhabdomyosarcoma cell lines as rhabdospheres demonstrates an enrichment in stemness and Notch signaling

Slemmons, K. K., Deel, M. D., Lin, Y.-T., Oristian, K. M., Kuprasertkul, N., Genadry, K. C., Chen, P.-H., Ashley Chi, J.-T. and Linardic, C. M.

bio050211

Auxin confers protection against ER stress in *Caenorhabditis elegans*

Bhoi, A., Palladino, F. and Fabrizio, P.

bio057992

A modifier screen identifies regulators of cytoskeletal architecture as mediators of Shroom-dependent changes in tissue morphology

Hildebrand, J. D., Leventry, A. D., Aideyman, O. P., Majewski, J. C., Haddad, J. A., Bisi, D. C. and Kaufmann, N.

bio055640

METHODS & TECHNIQUES

Three-dimensional model of glioblastoma by co-culturing tumor stem cells with human brain organoids

Azzarelli, R., Ori, M., Philpott, A. and Simons, B. D.

bio056416

Monitoring *Schizosaccharomyces pombe* genome stress by visualizing end-binding protein Ku

Jones, C. E. and Forsburg, S. L.

bio054346

Design of a 3D printed, motorized, uniaxial cell stretcher for microscopic and biochemical analysis of mechanotransduction

Al-Maslamani, N. A., Khilan, A. A. and Horn, H. F.

bio057778

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First person – Jaeike Faber

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First person – Manuela Santalla

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Future Leaders to Watch – Christopher Toepfer and Manuel Schmid

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First person – Xin Huang

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