



Cover: Yildirim et. al. show the Rumpel SLC5A transporter localizes at the plasma membrane of the ensheathing glia in the *Drosophila* CNS. The image shows an adult fly brain stained for Repo to define glial nuclei (magenta), N-Cadherin to visualize axonal and dendritic cell membranes (blue) and for Rumpel (green). Rumpel localizes around the neuropil in adult brains at a position of the ensheathing glia. Image licensed under a Creative Commons Attribution 4.0 International license.

MEETING REVIEW

The matrix in focus: new directions in extracellular matrix research from the 2021 ASMB hybrid meeting

Nerger, B. A., Jones, T. M., Rose, K. W. J., Barqué, A., Weinbaum, J. S., Petrie, R. J., Chang, J., Vanhoutte, D., LaDuca, K., Hubmacher, D. and Naba, A.

bio059156

FUTURE LEADER REVIEW

Developmental disorders caused by haploinsufficiency of transcriptional regulators: a perspective based on cell fate determination

Zug, R.

bio058896

Serotonin: an overlooked regulator of endocytosis and endosomal sorting?

Redpath, G. and Deo, N.

bio059057

RESEARCH ARTICLES

Potentiating V γ 9V δ 2 T cell proliferation and assessing their cytotoxicity towards adherent cancer cells at the single cell level

Liu, C., Skorupinska-Tudek, K., Eriksson, S.-G. and Parmryd, I.

bio059049

Soluble receptor for advanced glycation end products protects from ischemia- and reperfusion-induced acute kidney injury

Miyagawa, T., Iwata, Y., Oshima, M., Ogura, H., Sato, K., Nakagawa, S., Yamamura, Y., Kamikawa, Y., Miyake, T., Kitajima, S., Toyama, T., Hara, A., Sakai, N., Shimizu, M., Furuichi, K., Munosue, S., Yamamoto, Y., Kaneko, S. and Wada, T.

bio058852

Effects of mechanical stimulation on metabolomic profiles of SW1353 chondrocytes: shear and compression

Welhaven, H. D., McCutchen, C. N. and June, R. K.

bio058895

Modulation of retinoid-X-receptors differentially regulates expression of apolipoprotein genes *apoc1* and *apoeb* by zebrafish microglia

Thiel, W. A., Esposito, E. J., Findley, A. P., Blume, Z. I. and Mitchell, D. M.

bio058990

Redundant functions of the SLC5A transporters Rumpel, Bumpel, and Kumpel in ensheathing glial cells

Yildirim, K., Winkler, B., Pogodalla, N., Mackensen, S., Baldenius, M., Garcia, L., Naffin, E., Rodrigues, S. and Klämbt, C.

bio059128

METHODS & TECHNIQUES

A human stem cell resource to decipher the biochemical and cellular basis of neurodevelopmental defects in Lowe syndrome

Akhtar, B. M., Bhatia, P., Acharya, S., Sharma, S., Sharma, Y., Bhuvanendran Nair Suseela Devi, A., Ganapathy, K., Vasudevan, A. and Raghun, P.

bio059066

Myotonic dystrophy type 1 embryonic stem cells show decreased myogenic potential, increased CpG methylation at the *DMPK* locus and RNA mis-splicing

Franck, S., Couvreur De Deckersberg, E., Bubenik, J. L., Markouli, C., Barbé, L., Allemeersch, J., Hilven, P., Duqué, G., Swanson, M. S., Gheldof, A., Spits, C. and D. Sermon, K.

bio058978

FIRST PERSON

First person – Bilal Akhtar

bio059225

First person – Hope Welhaven

bio059172

FUTURE LEADER TO WATCH

Future leader to watch – Gregory Redpath

bio059203

Future leader to watch – Roman Zug

bio059178