



Cover: Nerve repair in the peripheral nervous system is critically dependent on the reprogramming of differentiated Schwann cells (SC) into a cell phenotype known as repair SC, specialized for promoting axonal regeneration. Our work suggests that SC-to-axon transfer of miRNA-21 through exosomes enhances axonal growth and might be involved in nerve repair. The picture is a composite of 25 individual images of a sensory neuron explant growing over repair SC *in vitro*. The immunofluorescence shows the DRG explant in green (Nfm), rSC in red (S100 β), and nuclear staining in blue (DAPI). See article by R. López-Leal et al. (jcs239004).

STICKY WICKETS

Corona VII – here comes the sun?

Mole

jcs248971

Corona VIII – strange dreams

Mole

jcs249268

FIRST PERSON

First person – Leeanne McGurk

jcs248773

First person – Amit Sharma

jcs249623

First person – Shivnarayan Dhuppar

jcs249615

First person – Yuichiro Saito

jcs249631

First person – Ahmed Abdelbaki Abdelaal and H. Begum Akman

jcs249649

OPINION

Cytoskeletal organization through multivalent interactions

Braun, M., Diez, S. and Lansky, Z.

jcs234393

HYPOTHESIS

Specialization of nuclear membrane in eukaryotes

Hara, Y.

jcs241869

REVIEW

α v β 8 integrin adhesion and signaling pathways in development, physiology and disease

McCarty, J. H.

jcs239434

RESEARCH ARTICLES

Epb4115 interacts with Iqcb1 and regulates ciliary function in zebrafish embryos

Yu, T. and Matsuda, M.

jcs240648

F-actin flashes on phagosomes mechanically deform contents for efficient digestion in macrophages

Poirier, M. B., Fiorino, C., Rajasekar, T. K. and Harrison, R. E.

jcs239384

RGS4 controls G α i3-mediated regulation of Bcl-2 phosphorylation on TGN38-containing intracellular membranes

Bastin, G., Dissanayake, K., Langburt, D., Tam, A. L. C., Lee, S.-H., Lachhar, K. and Heximer, S. P.

jcs241034

Loss of CPAP in developing mouse brain and its functional implication for human primary microcephaly

Lin, Y.-N., Lee, Y.-S., Li, S.-K. and Tang, T. K.

jcs243592

A subset of flavaglines inhibits KRAS nanoclustering and activation

Yurugi, H., Zhuang, Y., Siddiqui, F. A., Liang, H., Rosigkeit, S., Zeng, Y., Abou-Hamdan, H., Bockamp, E., Zhou, Y., Abankwa, D., Zhao, W., Désaubry, L. and Rajalingam, K.

jcs244111

Investigating cell cycle-dependent gene expression in the context of nuclear architecture at single-allele resolution

Dhuppar, S. and Mazumder, A.

jcs246330

Crumbs, Galla and Xpd are required for Kinesin-5 regulation in mitosis and organ growth in *Drosophila*

Hwang, J.-H., Vuong, L. T. and Choi, K.-W.

jcs246801

TDP-43, a protein central to amyotrophic lateral sclerosis, is destabilized by tankyrase-1 and -2

McGurk, L., Rifai, O. M. and Bonini, N. M.

jcs245811

Transgelin-2 and phosphoregulation of the LIC2 subunit of dynein govern mitotic spindle orientation

Sharma, A., Dagar, S. and Mylavarapu, S. V. S.

jcs239673

RIF1 controls replication initiation and homologous recombination repair in a radiation dose-dependent manner

Saito, Y., Kobayashi, J., Kanemaki, M. T. and Komatsu, K.

jcs240036

Drosophila Sas-6, Ana2 and Sas-4 self-organise into macromolecular structures that can be used to probe centriole and centrosome assembly

Gartenmann, L., Vicente, C. C., Wainman, A., Novak, Z. A., Sieber, B., Richens, J. H. and Raff, J. W.

jcs244574

TGF- β -driven downregulation of the transcription factor TCF7L2 affects Wnt/ β -catenin signaling in PDGFR α ⁺ fibroblasts

Contreras, O., Soliman, H., Theret, M., Rossi, F. M. V. and Brandan, E.

jcs242297

Serine 319 phosphorylation is necessary and sufficient to induce a Cx37 conformation that leads to arrested cell cycling

Taylor, S.-S. Z., Jacobsen, N. L., Pontifex, T. K., Langlais, P. and Burt, J. M.

jcs240721

AURKA destruction is decoupled from its activity at mitotic exit but is essential to suppress interphase activity

Abdelbaki, A., Akman, H. B., Poteau, M., Grant, R., Gavet, O., Guarguaglini, G. and Lindon, C.

jcs243071

Nucleocytoplasmic shuttling of the glucocorticoid receptor is influenced by tetratricopeptide repeat-containing proteins
Mazaira, G. I., Echeverria, P. C. and Galigniana, M. D.
jcs238873

LIN28A binds to meiotic gene transcripts and modulates their translation in male germ cells
Wang, M., Yu, L., Wang, S., Yang, F., Wang, M., Li, L. and Wu, X.
jcs242701

Schwann cell reprogramming into repair cells increases miRNA-21 expression in exosomes promoting axonal growth
López-Leal, R., Díaz-Viraqué, F., Catalán, R. J., Saquel, C., Enright, A., Iraola, G. and Court, F. A.
jcs239004

OPTN recruitment to a Golgi-proximal compartment regulates immune signalling and cytokine secretion
O'Loughlin, T., Kruppa, A. J., Ribeiro, A. L. R., Edgar, J. R., Ghannam, A., Smith, A. M. and Buss, F.
jcs239822

TOOLS AND RESOURCES

Sensitive detection of protein ubiquitylation using a protein fragment complementation assay
Le Boulch, M., Brossard, A., Le Dez, G., Léon, S. and Rabut, G.
jcs240093

A new pipeline for pathophysiological analysis of the mammary gland based on organoid transplantation and organ clearing
Lagoutte, E., Villeneuve, C., Fraisier, V., Krndija, D., Deugnier, M.-A., Chavrier, P. and Rossé, C.
jcs242495

Mechano-responsiveness of fibrillar adhesions on stiffness-gradient gels
Barber-Pérez, N., Georgiadou, M., Guzmán, C., Isomursu, A., Hamidi, H. and Ivaska, J.
jcs242909