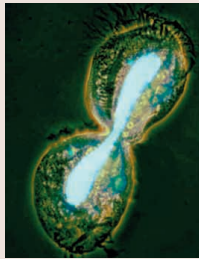


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Cover: DAPI-stained dividing *Euplotes aediculatus* cell showing the large dividing macronucleus. This ciliated protozoa contains two types of nuclei within one cell: a large DNA-rich macronucleus and diploid micronuclei. The DNA in the macronucleus occurs in short 'gene-sized' DNA molecules, each of which is terminated by telomeric sequences. Owing to the high concentration of telomeres in its macronucleus, the *E. aediculatus* cell is an attractive model system in which to study telomere structure and telomere replication. M. Möllenbeck et al. (pp. 1757-1761) report that the biological function of a telomerase-associated protein is to anchor the enzyme in the replication factory of the macronucleus. This is the first study of the biological function of a telomerase-associated protein outside yeast.

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Research Articles

- 1667 **Nucleolar association of pEg7 and XCAP-E, two members of *Xenopus laevis* condensin complex in interphase cells.** Uzbekov, R., Timirbulatova, E., Watrin, E., Cubizolles, F., Ogereau, D., Gulak, P., Legagneux, V., Polyakov, V. Ju., Le Guellec, K. and Kireev, I.
- 1679 **Mouse Apg16L, a novel WD-repeat protein, targets to the autophagic isolation membrane with the Apg12-Apg5 conjugate.** Mizushima, N., Kuma, A., Kobayashi, Y., Yamamoto, A., Matsubae, M., Takao, T., Natsume, T., Ohsumi, Y. and Yoshimori, T.
- 1689 **The endo- β -1,3-glucanase eng1p is required for dissolution of the primary septum during cell separation in *Schizosaccharomyces pombe*.** Martín-Cuadrado, A. B., Dueñas, E., Sipiczki, M., Vázquez de Aldana, C. R. and del Rey, F.
- 1699 **Sphingosine-1-phosphate decreases melanin synthesis via sustained ERK activation and subsequent MITF degradation.** Kim, D.-S., Hwang, E.-S., Lee, J.-E., Kim, S.-Y., Kwon, S.-B. and Park, K.-C.
- 1707 **Accumulation of c-Myc and proteasomes at the nucleoli of cells containing elevated c-Myc protein levels.** Arabi, A., Rustum, C., Hallberg, E. and Wright, A. P. H.
- 1719 **Linear element formation and their role in meiotic sister chromatid cohesion and chromosome pairing.** Molnar, M., Doll, E., Yamamoto, A., Hiraoka, Y. and Kohli, J.
- 1733 **The *Drosophila* EAST protein associates with a nuclear remnant during mitosis and constrains chromosome mobility.** Wasser, M. and Chia, W.
- 1745 **The formin-homology-domain-containing protein FHOD1 enhances cell migration.** Koka, S., Neudauer, C. L., Li, X., Lewis, R. E., McCarthy, J. B. and Westendorf, J. J.
- 1757 **The telomerase-associated protein p43 is involved in anchoring telomerase in the nucleus.** Möllenbeck, M., Postberg, J., Paeschke, K., Rossbach, M., Jönsson, F. and Lipps, H. J.

Cell Science at a Glance

- 1647 **Epithelial-mesenchymal signalling regulating tooth morphogenesis.** Thesleff, I.

Book Reviews

- 1649 **A Biologist's Guide to Analysis of DNA Microarray Data**, by S. Knudsen. Fan, B. J. and Leung, Y. F.
- 1650 **Drosophila Eye Development**, edited by K. Moses. Bray, S. and Johnson, R.

Commentaries

- 1653 **The complex life of WT1.** Wagner, K.-D., Wagner, N. and Schedl, A.
- 1659 **Stem cell regulation in the shoot meristem.** Groß-Hardt, R. and Laux, T.

- 1763 **Furin interacts with proMT1-MMP and integrin α V at specialized domains of renal cell plasma membrane.** Mayer, G., Boileau, G. and Bendayan, M.
- 1775 **Isolation of hepatoblasts based on the expression of Dlk/Pref-1.** Tanimizu, N., Nishikawa, M., Saito, H., Tsujimura, T. and Miyajima, A.
- 1787 **Global amplification polymerase chain reaction reveals novel transitional stages during osteoprogenitor differentiation.** Liu, F., Malaval, L. and Aubin, J. E.
- 1797 **Modeling human peroxisome biogenesis disorders in the nematode *Caenorhabditis elegans*.** Thieringer, H., Moellers, B., Dodt, G., Kunau, W.-H. and Driscoll, M.
- 1805 **Dynamic association of RNA-editing enzymes with the nucleolus.** Desterro, J. M. P., Keegan, L. P., Lafarga, M., Berciano, M. T., O'Connell, M. and Carmo-Fonseca, M.
- 1819 **HIF-1 α controls extracellular matrix synthesis by epiphyseal chondrocytes.** Pfander, D., Cramer, T., Schipani, E. and Johnson, R. S.
- 1827 **Molecular and cellular characterisation of highly purified stromal stem cells derived from human bone marrow.** Gronthos, S., Zannettino, A. C. W., Hay, S. J., Shi, S., Graves, S. E., Kortessidis, A. and Simmons, P. J.
- 1837 **Permeabilization in a cerebral endothelial barrier model by pertussis toxin involves the PKC effector pathway and is abolished by elevated levels of cAMP.** Brückener, K. E., el Bayâ, A., Galla, H.-J. and Schmidt, M. A.
- 1847 **The intracellular localisation of TAF7L, a paralogue of transcription factor TFIID subunit TAF7, is developmentally regulated during male germ-cell differentiation.** Pointud, J.-C., Mengus, G., Brancorsini, S., Monaco, L., Parvinen, M., Sassone-Corsi, P. and Davidson, I.



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