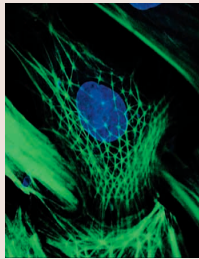


# Journal of Cell Science

Volume 116 (7) 2003



**Cover:** The cytoskeleton of a neonatal fibroblast stained with fluoresceinated-phalloidin (green) and TOTO-3 (blue) to visualize actin microfilaments and DNA, respectively, within nuclei. Note the highly triangulated 'actin geodome' that uses a geodesic form of tensegrity architecture that is described in the *Commentary* by Donald Ingber (pp. 1157-1173). Image provided by Emilia Entcheva, Stony Brook University, NY.

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## Research Articles

- 1187 **Adherens junctions and tight junctions are regulated via different pathways by progastrin in epithelial cells.** Hollande, F., Lee, D. J., Choquet, A., Roche, S. and Baldwin, G. S.
- 1199 ***Drosophila miniature* and *dusky* encode ZP proteins required for cytoskeletal reorganisation during wing morphogenesis.** Roch, F., Alonso, C. R. and Akam, M.
- 1209 **Regulation of membrane expansion at the nerve growth cone.** Pfenninger, K. H., Laurino, L., Peretti, D., Wang, X., Rosso, S., Morfini, G., Cáceres, A. and Quiroga, S.
- 1219 **Targeting of p0071 to desmosomes and adherens junctions is mediated by different protein domains.** Hatzfeld, M., Green, K. J. and Sauter, H.
- 1235 **Microtubule distribution during meiosis I in flea-beetle [*Alagoasa (Oedionychus)*] spermatocytes: evidence for direct connections between unpaired sex chromosomes.** Wilson, P. J., Forer, A. and Wise, D.
- 1249 **Control of morphogenesis and actin localization by the *Penicillium marneffei* RAC homolog.** Boyce, K. J., Hynes, M. J. and Andrianopoulos, A.
- 1261 **Intracellular calcium measurements of single human skin cells after stimulation with corticotropin-releasing factor and urocortin using confocal laser scanning microscopy.** Wiesner, B., Roloff, B., Fechner, K. and Slominski, A.
- 1269 **Microtubule-dependent redistribution of the type-1 inositol 1,4,5-trisphosphate receptor in A7r5 smooth muscle cells.** Vermassen, E., Van Acker, K., Annaert, W. G., Himpens, B., Callewaert, G., Missiaen, L., De Smedt, H. and Parys, J. B.
- 1279 **Junctional protein MAGI-3 interacts with receptor tyrosine phosphatase  $\beta$  (RPTP $\beta$ ) and tyrosine-phosphorylated proteins.** Adamsky, K., Arnold, K., Sabanay, H. and Peles, E.
- 1291 **Cytoskeletal proteins with N-terminal signal peptides: plateins in the ciliate *Euplotes* define a new family of articulins.** Kloetzel, J. A., Baroin-Tourancheau, A., Miceli, C., Barchetta, S., Farmar, J., Banerjee, D. and Fleury-Aubusson, A.
- 1305 **The cancer antigen CA125 represents a novel counter receptor for galectin-1.** Seelenmeyer, C., Wegehngel, S., Lechner, J. and Nickel, W.
- 1319 **Intracellular localisation of human HIF-1 $\alpha$  hydroxylases: implications for oxygen sensing.** Metzen, E., Berchner-Pfannschmidt, U., Stengel, P., Marxsen, J. H., Stolze, I., Klinger, M., Huang, W. Q., Wotzlaw, C., Hellwig-Bürgel, T., Jelkmann, W., Acker, H. and Fandrey, J.
- 1327 **Internalization signals in synaptotagmin VII utilizing two independent pathways are masked by intramolecular inhibitions.** Dasgupta, S. and Kelly, R. B.
- 1339 **Myosin Va facilitates the distribution of secretory granules in the F-actin rich cortex of PC12 cells.** Rudolf, R., Kögel, T., Kuznetsov, S. A., Salm, T., Schlicker, O., Hellwig, A., Hammer, J. A., III and Gerdes, H.-H.
- 1349 **Telomere-based proliferative lifespan barriers in Werner-syndrome fibroblasts involve both p53-dependent and p53-independent mechanisms.** Davis, T., Singhrao, S. K., Wyllie, F. S., Haughton, M. F., Smith, P. J., Wiltshire, M., Wynford-Thomas, D., Jones, C. J., Faragher, R. G. A. and Kipling, D.
- 1359 **The lipoma preferred partner LPP interacts with  $\alpha$ -actinin.** Li, B., Zhuang, L., Reinhard, M. and Trueb, B.
- 1367 **EphrinA1 inactivates integrin-mediated vascular smooth muscle cell spreading via the Rac/PAK pathway.** Deroanne, C., Vouret-Craviari, V., Wang, B. and Pouyssegur, J.
- 1377 **Polo boxes form a single functional domain that mediates interactions with multiple proteins in fission yeast polo kinase.** Reynolds, N. and Ohkura, H.
- 1389 **Erratum: Live-cell monitoring of tyrosine phosphorylation in focal adhesions following microtubule disruption.** Kirchner, J., Kam, Z., Tzur, G., Bershadsky, A. D. and Geiger, B.

## Sticky Wicket

1153 **Bleeding on paper II (a continuation of Mole's guide to grant writing).** Mole

## Best Paper Award

1155 **Best Paper Award 2002.** Watt, F. M.

## Commentaries

1157 **Tensegrity I. Cell structure and hierarchical systems biology.** Ingber, D. E.

1175 **GSK-3: tricks of the trade for a multi-tasking kinase.** Doble, B. W. and Woodgett, J. R.



Movies available online