## Contents:

The Journal of Cell Biology
Volume 144, Number 3, February 8, 1999

## In Brief

Switching from matrix to cells. Proton gradients in pollen tubes. Tension turns off endocytosis. Making dendritic spines. Cadherin-mediated motility.
W.A. Wells

## Mini-Review

385 Intraflagellar transport: The eyes have it. J.L. Rosenbaum, D.G. Cole, and D.R. Diener

## Regular Articles

389 A novel in vivo assay reveals inhibition of ribosomal nuclear export in Ran-cycle and nucleoporin mutants.
E. Hurt, S. Hannus, B. Schmelzl, D. Lau, D. Tollervey, and G. Simos

403 Mammalian homologue of the Caenorhabditis elegans UNC-76 protein involved in axonal outgrowth is a protein kinase $\mathbf{C} \zeta$-interacting protein.
S. Kuroda, N. Nakagawa, C. Tokunaga, K. Tatematsu, and K. Tanizawa

413 Evidence that atypical protein kinase $\mathrm{C}-\lambda$ and atypical protein kinase $\mathrm{C}-\zeta$ participate in Ras-mediated reorganization of the F-actin cytoskeleton.
F. Überall, K. Hellbert, S. Kampfer, K. Maly,
A. Villunger, M. Spitaler, J. Mwanjewe,
G. Baier-Bitterlich, G. Baier, and H.H. Grunicke

427 Arginase II downregulates nitric oxide (NO) production and prevents NO-mediated apoptosis in murine macrophage-derived RAW 264.7 cells. T. Gotoh and M. Mori

435 The intermediate filament protein peripherin is the specific interaction partner of mouse BPAG1-n (dystonin) in neurons.
C.L. Leung, D. Sun, and R.K.H. Liem

447 Slow axonal transport of neurofilament protein in cultured neurons.
T.J. Koehnle and A. Brown

459 Induction of integral membrane PAM expression in AtT-20 cells alters the storage and trafficking of POMC and PC1.
G.D. Ciccotosto, M.R. Schiller, B.A. Eipper, and R.E. Mains

473 The DHC1b (DHC2) isoform of cytoplasmic dynein is required for flagellar assembly.
G.J. Pazour, B.L. Dickert, and G.B. Witman

483 Growing pollen tubes possess a constitutive alkaline band in the clear zone and a growth-dependent acidic tip.
J.A. Feijó, J. Sainhas, G.R. Hackett, J.G. Kunkel, and P.K. Hepler

497 Membrane expansion increases endocytosis rate during mitosis.
D. Raucher and M.P. Sheetz

507 Neurotransmitter secretion along growing nerve processes: Comparison with synaptic vesicle exocytosis.
S. Zakharenko, S. Chang, M. O'Donoghue, and S.V. Popov

519 ס-catenin, an adhesive junction-associated protein which promotes cell scattering.
Q. Lu, M. Paredes, M. Medina, J. Zhou, R. Cavallo, M. Peifer, L. Orecchio, and K.S. Kosik

533 DE-Cadherin is required for intercellular motility during Drosophila oogenesis.
P. Niewiadomska, D. Godt, and U. Tepass

549 Evidence that distinct states of the integrin $\alpha 6 \beta 1$ interact with laminin and an ADAM.
M.S. Chen, E.A.C. Almeida, A.-P.J. Huovila, Y. Takahashi, L.M. Shaw, A.M. Mercurio, and J.M. White

563 Laminin 5 in the human thymus: Control of T cell proliferation via $\alpha_{6} \beta_{4}$ integrins.
M. Vivinus-Nebot, M. Ticchioni, F. Mary, P. Hofman, V. Quaranta, P. Rousselle, and A. Bernard

575 Cell surface heparan sulfate proteoglycan syndecan-2 induces the maturation of dendritic spines in rat hippocampal neurons.
I.M. Ethell and Y. Yamaguchi

587 ADDITIONS AND CORRECTIONS

[^0]
[^0]:    Cover picture: Confocal images of SW13.cl.2Vim ${ }^{-}$cells cotransfected with the COOH -terminal tail domain of mouse BPAG1/dystonin and neuronal intermediate filaments. On the right, the cell is cotransfected with BPAG1 tail (green) and peripherin (red); the resulting yellow overlapping pattern shows the interaction between the two proteins. On the left, the cell is cotransfected with BPAG1 tail and NFL/NFH; the coassembled filaments are seen in red and do not overlap with the green BPAG1 tail staining. The confocal images were obtained with a Zeiss LSM 410 laser scanning confocal fluorescence microscope. See related article in this issue by Leung et al., 435-446.

