

THE JOURNAL OF CELL BIOLOGY · CONTENTS
VOLUME 89 NUMBER 2 MAY 1981

Regular Articles

- 173 C. H. Damsky, K. A. Knudsen, R. J. Dorio, and C. A. Buck. Manipulation of cell-cell and cell-substratum interactions in mouse mammary tumor epithelial cells using broad spectrum antisera
- 185 H. M. Eppenberger, J.-C. Perriard, U. B. Rosenberg, and E. E. Strehler. The M_r 165,000 M-protein myomesin: a specific protein of cross-striated muscle cells
- 194 M. V. N. Rao. Cell population heterogeneity in the inducibility of DNA synthesis in human diploid fibroblasts
- 198 M. Willard and C. Simon. Antibody decoration of neurofilaments
- 206 S. J. Merkel, E. S. Kaneshiro, and E. I. Gruenstein. Characterization of the cilia and ciliary membrane proteins of wild-type *Paramecium tetraurelia* and a pawn mutant
- 216 J. Y. Chou and S. E. Schlegel-Haueter. Study of liver differentiation in vitro
- 223 H. R. Petty, D. G. Hafeman, and H. M. McConnell. Disappearance of macrophage surface folds after antibody-dependent phagocytosis
- 230 R. F. Green, H. K. Meiss, and E. Rodriguez-Boulan. Glycosylation does not determine segregation of viral envelope proteins in the plasma membrane of epithelial cells
- 240 P. W. Gunning, G. E. Landreth, M. A. Bothwell, and E. M. Shooter. Differential and synergistic actions of nerve growth factor and cyclic AMP in PC12 cells
- 246 B. Fleischer. Orientation of glycoprotein galactosyltransferase and sialyltransferase enzymes in vesicles derived from rat liver Golgi apparatus
- 256 T. W. James and R. Bohman. Proliferation of mitochondria during the cell cycle of the human cell line (HL-60)
- 261 J. Rapoport, W. A. Kachadorian, J. Muller, N. Franki, and R. M. Hays. Stabilization of vasopressin-induced membrane events by bifunctional imidoesters
- 267 M. Schliwa, K. Weber, and K. R. Porter. Localization and organization of actin in melanophores
- 276 P. Ekblom, E. Lehtonen, L. Saxén, and R. Timpl. Shift in collagen type as an early response to induction of the metanephric mesenchyme
- 284 C. H. Johnson and D. Epel. Intracellular pH of sea urchin eggs measured by the dimethyloxazolidinedione (DMO) method
- 292 W. J. Hurkman, L. D. Smith, J. Richter, and B. A. Larkins. Subcellular compartmentalization of maize storage proteins in *Xenopus* oocytes injected with zein messenger RNAs
- 300 E. Reaven and S. Azhar. Effect of various hepatic membrane fractions on microtubule assembly—with special emphasis on the role of membrane phospholipids
- 309 R. W. Linck, G. E. Olson, and G. L. Langevin. Arrangement of tubulin subunits and microtubule-associated proteins in the central-pair microtubule apparatus of squid (*Loligo pealei*) sperm flagella
- 323 R. W. Linck and G. L. Langevin. Reassembly of flagellar B ($\alpha\beta$) tubulin into singlet microtubules: consequences for cytoplasmic microtubule structure and assembly
- 338 U. Euteneuer and J. R. McIntosh. Structural polarity of kinetochore microtubules in PtK₁ cells
- 346 S. Inoué. Video image processing greatly enhances contrast, quality, and speed in polarization-based microscopy

Rapid Communications

- 357 J. L. R. Rubenstein, R. E. Fine, B. D. Luskey, and J. E. Rothman. Purification of coated vesicles by agarose gel electrophoresis
- 362 D. L. Taylor, J. Reidler, J. A. Spudich, and L. Stryer. Detection of actin assembly by fluorescence energy transfer
- 368 L. S. Barak, R. R. Yocum, and W. W. Webb. In vivo staining of cytoskeletal actin by autointernalization of nontoxic concentrations of nitrobenzoxadiazole-phallacidin
- 373 B. R. Telzer and L. T. Haimo. Decoration of spindle microtubules with dynein: evidence for uniform polarity
- 378 J. H. Chamley-Campbell, G. R. Campbell, and R. Ross. Phenotype-dependent response of cultured aortic smooth muscle to serum mitogens
- 384 ASCB PLACEMENT SERVICE NOTICES