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### *In Brief*

**Movement by cable or capture. Gathering together unfolded proteins. Not all sarcoglycans are equal. Nuclear pore complexes and spindle pole bodies share a component. Early functions for desmosomes. A sex-specific homeodomain protein in algae.**

W.A. Wells

### *Regular Articles*

- 1763 **INCENP centromere and spindle targeting: Identification of essential conserved motifs and involvement of heterochromatin protein HP1.**  
A.M. Ainsztein, S.E. Kandels-Lewis, A.M. Mackay, and W.C. Earnshaw
- 1775 **Fission yeast Bub1 is a mitotic centromere protein essential for the spindle checkpoint and the preservation of correct ploidy through mitosis.**  
P. Bernard, K. Hardwick, and J.-P. Javerzat
- 1789 ***Saccharomyces cerevisiae* Ndc1p is a shared component of nuclear pore complexes and spindle pole bodies.**  
H.J. Chial, M.P. Rout, T.H. Giddings, Jr., and M. Winey
- 1801 **Functional analysis of Tpr: Identification of nuclear pore complex association and nuclear localization domains and a role in mRNA export.**  
P. Bangs, B. Burke, C. Powers, R. Craig, A. Purohit, and S. Doxsey
- 1813 **Specific binding of the karyopherin Kap121p to a subunit of the nuclear pore complex containing Nup53p, Nup59p, and Nup170p.**  
M. Marelli, J.D. Aitchison, and R.W. Wozniak
- 1831 **Homotypic fusion of immature secretory granules during maturation in a cell-free assay.**  
S. Urbé, L.J. Page, and S.A. Tooze
- 1845 **Biochemical and functional studies of cortical vesicle fusion: The SNARE complex and Ca<sup>2+</sup> sensitivity.**  
J.R. Coorssen, P.S. Blank, M. Tahara, and J. Zimmerberg
- 1859 **Pex18p and Pex21p, a novel pair of related peroxins essential for peroxisomal targeting by the PTS2 pathway.**  
P.E. Purdue, X. Yang, and P.B. Lazarow
- 1871 **Redundant and distinct functions for dynamin-1 and dynamin-2 isoforms.**  
Y. Altschuler, S.M. Barbas, L.J. Terlecky, K. Tang, S. Hardy, K.E. Mostov, and S.L. Schmid
- 1883 **Aggresomes: A cellular response to misfolded proteins.**  
J.A. Johnston, C.L. Ward, and R.R. Kopito
- 1899 **Visualization of melanosome dynamics within wild-type and dilute melanocytes suggests a paradigm for myosin V function in vivo.**  
X. Wu, B. Bowers, K. Rao, Q. Wei, and J.A. Hammer III
- 1919 **Visualization and molecular analysis of actin assembly in living cells.**  
D.A. Schafer, M.D. Welch, L.M. Machesky, P.C. Bridgman, S.M. Meyer, and J.A. Cooper
- 1931 **Tropomyosin-containing actin cables direct the Myo2p-dependent polarized delivery of secretory vesicles in budding yeast.**  
D.W. Pruyne, D.H. Schott, and A. Bretscher
- 1947 **Dual function of Cyk2, a cdc15/PSTPIP family protein, in regulating actomyosin ring dynamics and septin distribution.**  
J. Lippincott and R. Li
- 1961 **Nonuniform microtubular polarity established by CHO1/MKLP1 motor protein is necessary for process formation of podocytes.**  
N. Kobayashi, J. Reiser, W. Kriz, R. Kuriyama, and P. Mundel
- 1971 **A gamete-specific, sex-limited homeodomain protein in *Chlamydomonas*.**  
V. Kurvari, N.V. Grishin, and W.J. Snell

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**Cover picture:** An E5.0 day mouse embryo was labeled with E-cadherin (red), desmoplakin (green), and DAPI (blue) and viewed using confocal microscopy. Adherens junctions are located between cells of the extraembryonic tissues (ectoplacental cone and visceral endoderm) and embryonic tissue (primitive ectodermal), while desmosomes at this stage are located only between cells in the extraembryonic tissues. See related article in this issue by Gallicano et al., 2009–2022.

- 1981 **ARF1 mediates paxillin recruitment to focal adhesions and potentiates Rho-stimulated stress fiber formation in intact and permeabilized Swiss 3T3 fibroblasts.**  
J.C. Norman, D. Jones, S.T. Barry, M.R. Holt, S. Cockcroft, and D.R. Crichtley
- 1997 **Regulation of the cell cycle by focal adhesion kinase.**  
J.-H. Zhao, H. Reiske, and J.-L. Guan
- 2009 **Desmoplakin is required early in development for assembly of desmosomes and cytoskeletal linkage.**  
G.I. Gallicano, P. Kouklis, C. Bauer, M. Yin, V. Vasioukhin, L. Degenstein, and E. Fuchs
- 2023 **Mutation of a major keratin phosphorylation site predisposes to hepatotoxic injury in transgenic mice.**  
N.-O. Ku, S.A. Michie, R.M. Soetikno, E.Z. Resurreccion, R.L. Broome, and M.B. Omary
- 2033 **Molecular organization of sarcoglycan complex in mouse myotubes in culture.**  
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- 2045 **Functional characteristics of ES cell-derived cardiac precursor cells identified by tissue-specific expression of the green fluorescent protein.**  
E. Kolossov, B.K. Fleischmann, Q. Liu, W. Bloch, S. Viatchenko-Karpinski, O. Manzke, G.J. Ji, H. Bohlen, K. Addicks, and J. Hescheler
- 2057 **Autocrine tumor necrosis factor (TNF) and lymphotoxin (LT)  $\alpha$  differentially modulate cellular sensitivity to TNF/LT- $\alpha$  cytotoxicity in L929 cells.**  
E. Decoster, S. Cornelis, B. Vanhaesebroeck, and W. Fiers
- 2067 **The cell adhesion molecule L1 is developmentally regulated in the renal epithelium and is involved in kidney branching morphogenesis.**  
H. Debiec, E.I. Christensen, and P.M. Ronco
- 2081 **Activation of  $\alpha_v\beta_3$  on vascular cells controls recognition of prothrombin.**  
T.V. Byzova and E.F. Plow
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