Contents:

The Journal of Cell Biology

Volume 110. Number 6. June 1990

- 1855 Caffeine overcomes a restriction point associated with DNA replication, but does not accelerate mitosis. C. S. Downes, S. R. R. Musk, J. V. Watson, and R. T. Johnson
- 1861 Primary sequence and heterologous expression of nuclear pore glycoprotein p62. C. M. Starr, M. D'Onofrio, M. K. Park, and J. A. Hanover
- 1873 Accumulation, stability, and localization of a major chloroplast heat-shock protein. Q. Chen, L. M. Lauzon, A. E. DeRocher, and E. Vierling
- 1885 Loss of BiP/GRP78 function blocks translocation of secretory proteins in yeast. J. P. Vogel, L. M. Misra, and M. D. Rose
- 1897 Sec2 protein contains a coiled-coil domain essential for vesicular transport and a dispensable carboxy terminal domain. J. Nair, H. Müller, M. Peterson, and P. Novick
- 1911 Detection of an intermediate compartment involved in transport of α -factor from the plasma membrane to the vacuole in yeast. B. Singer and H. Riezman
- 1923 Studies on the mechanisms of autophagy: formation of the autophagic vacuole. W. A. Dunn, Jr.
- 1935 Studies on the mechanisms of autophagy: maturation of the autophagic vacuole. W. A. Dunn, Jr.
- 1947 Cytoplasmic pH of *Dictyostelium discoideum* amebae during early development: identification of two cell subpopulations before the aggregation stage. R. Furukawa, J. E. Wampler, and M. Fechheimer
- 1955 Generation and characterization of *Dictyostelium* cells deficient in a myosin I heavy chain isoform. G. Jung and J. A. Hammer III
- 1965 The actin released from profilin-actin complexes is insufficient to account for the increase in F-actin in chemoattractant-stimulated polymorphonuclear leukocytes. F. Southwick and C. L. Young
- 1975 Actin assembly in electropermeabilized neutrophils: role of intracellular calcium. G. P. Downey, C. K. Chan, S. Trudel, and S. Grinstein
- 1983 Gelsolin-actin interaction and actin polymerization in human neutrophils. T. Howard, C. Chaponnier, H. Yin, and T. Stossel
- 1993 Identification of actin filaments in the rhabdomeral microvilli of *Drosophila* photoreceptors. K. Arikawa, J. L. Hicks, and D. S. Williams
- 1999 Molecular genetics of *Drosophila* alpha-actinin: mutant alleles disrupt Z-disc integrity and muscle insertions. E. Fyrberg, M. Kelly, E. Ball, C. Fyrberg, and M. C. Reedy
- 2013 Bundling of actin filaments by α -actinin depends on its molecular length. R. K. Meyer and U. Aebi
- 2025 Protein synthesis and the cell cycle: centrosome reproduction in sea urchin eggs is not under translational control. G. Sluder, F. J. Miller, R. Cole, and C. L. Rieder
- 2033 Centrosome duplication continues in cycloheximide-treated *Xenopus* blastulae in the absence of a detectable cell cycle. D. L. Gard, S. Hafezi, T. Zhang, and S. J. Doxsey
- Subunit selectivity and epitope characterization of mAbs directed against the GABA_A/benzodiazepine receptor. M. Ewert, B. D. Shivers, H. Lüddens, H. Möhler, and P. H. Seeburg
- 2049 Rotational diffusion of acetylcholine receptors on cultured rat myotubes. M. Velez, K. F. Barald, and D. Axelrod
- A protein homologous to the *Torpedo* postsynaptic 58K protein is present at the myotendinous junction. Q. Chen, R. Sealock, and H. B. Peng
- 2073 Neuroblast mitosis in dissociated culture: regulation and relationship to differentiation. E. DiCicco-Bloom, E. Townes-Anderson, and I. B. Black
- 2087 Distinct and different effects of the oncogenes *v-myc* and *v-src* on avian sympathetic neurons: retroviral transfer of *v-myc* stimulates neuronal proliferation whereas *v-src* transfer enhances neuronal differentiation. H. Haltmeier and H. Rohrer

- 2099 Localization of laminin B1 mLRNA in retinal ganglion cells by in situ hybridization. P. V. Sarthy and M. Fu
- 2109 Membrane channel formation by the lymphocyte pore-forming protein: comparison between susceptible and resistant target cells. P. M. Persechini, J. D.-E Young, and W. Almers
- 2117 Scrapie prion proteins accumulate in the cytoplasm of persistently infected cultured cells. A. Taraboulos, D. Serban, and S. B. Prusiner
- Three-dimensional structure of rhesus rotavirus by cryoelectron microscopy and image reconstruction. M. Yeager, K. A. Dryden, N. H. Olson, H. B. Greenberg, and T. S. Baker
- Integrin recognition of different cell-binding fragments of laminin (P1, E3, E8) and evidence that α6β1 but not α6β4 functions as a major receptor for fragment E8. A. Sonnenberg, C. J. T. Linders, P. W. Modderman, C. H. Damsky, M. Aumailley, and R. Timpl
- An alternative leukocyte homotypic adhesion mechanism, LFA-1/ICAM-1-independent, triggered through the human VLA-4 integrin. M. R. Campanero, R. Pulido, M. A. Ursa, M. Rodríguez-Moya, M. O. de Landázuri, and F. Sánchez-Madrid
- The activation dependent adhesion of macrophages to laminin involves cytoskeletal anchoring and phosphorylation of the $\alpha_6\beta_1$ integrin. L. M. Shaw, J. M. Messier, and A. M. Mercurio
- 2175 The α_6/β_1 integrin heterodimers mediate cell attachment to distinct sites on laminin. D. E. Hall, L. F. Reichardt, E. Crowley, B. Holley, M. Moezzi, A. Sonnenberg, and C. H. Damsky
- 2185 Isolation of a novel integrin receptor mediating ARG-GLY-ASP-directed cell adhesion to fibronectin and type I collagen from human neuroblastoma cells. Association of a novel β_1 -related subunit with α_v . S. Dedhar and V. Gray
- 2195 Transforming growth factor- β and the initiation of chondrogenesis and osteogenesis in the rat femur. M. E. Joyce, A. B. Roberts, M. B. Sporn, and M. E. Bolander
- 2209 Epithelium-dependent extracellular matrix synthesis in TGF-β1-growth inhibited mouse mammary gland. G. B. Silberstein, P. Strickland, S. Coleman, and C. W. Daniel
- A homing receptor-IgG chimera as a probe for adhesive ligands of lymph node high endothelial venules. S. R. Watson, Y. Imai, C. Fennie, J. S. Goeffroy, S. D. Rosen, and L. A. Lasky
- 2231 Correction
- 2233 Author Index for Volume 110
- 2245 Subject Index for Volume 110