

Contents:

The Journal of Cell Biology

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Mini-Review

- 829 ***fos* protooncogene and the regulation of gene expression in adipocyte differentiation.** B. M. Spiegelman, R. J. Distel, H. S. Ro, B. Rosen, and B. Satterberg

Regular Articles

- 833 **A major 62-kD intranuclear matrix polypeptide is a component of metaphase chromosomes.** A. P. Fields and J. H. Shaper
- 841 **The nucleoplasmin nuclear location sequence is larger and more complex than that of SV-40 large T antigen.** C. Dingwall, J. Robbins, S. M. Dilworth, B. Roberts, and W. D. Richardson
- 851 **A membrane glycoprotein, Sec12p, required for protein transport from the endoplasmic reticulum to the Golgi apparatus in yeast.** A. Nakano, D. Brada, and R. Schekman
- 865 **Cell surface expression of glycosylated, nonglycosylated, and truncated forms of a cytoplasmic protein pyruvate kinase.** S. W. Hiebert and R. A. Lamb
- 877 **Deep-etch visualization of proteins involved in clathrin assembly.** J. E. Heuser and J. Keen
- 887 **A prelysosomal compartment sequesters membrane-impermeant fluorescent dyes from the cytoplasmic matrix of J774 macrophages.** T. H. Steinberg, J. A. Swanson, and S. C. Silverstein
- 897 **Identification of peroxisomal targeting signals located at the carboxy terminus of four peroxisomal proteins.** S. J. Gould, G.-A. Keller, and S. Subramani
- 907 **Biogenesis of thylakoid membranes is controlled by light intensity in the conditional chlorophyll b-deficient CD3 mutant of wheat.** K. D. Allen, M. E. Duysen, and L. A. Staehelin
- 921 **Lateral segregation of neutrophil chemotactic receptors into actin- and fodrin-rich plasma membrane microdomains depleted in guanyl nucleotide regulatory proteins.** A. J. Jesaitis, G. M. Bokoch, J. O. Tolley, and R. A. Allen
- 929 **Immunocytochemical evidence for translocation of protein kinase C in human megakaryoblastic leukemic cells: synergistic effects of Ca^{2+} and activators of protein kinase C on the plasma membrane association.** T. Ito, T. Tanaka, T. Yoshida, K. Onoda, H. Ohta, M. Hagiwara, Y. Itoh, M. Ogura, H. Saito, and H. Hidaka
- 939 **A431 cell variants lacking the blood group A antigen display increased high affinity epidermal growth factor-receptor number, protein-tyrosine kinase activity, and receptor turnover.** L. H. K. Defize, D. J. Arndt-Jovin, T. M. Jovin, J. Boonstra, J. Meisenhelder, T. Hunter, H. T. de Hey, and S. W. de Laat
- 951 **Response of neutrophils to stimulus infusion: differential sensitivity of cytoskeletal activation and oxidant production.** G. M. Omann and L. A. Sklar
- 959 **Human immunodeficiency virus infection of T cells and monocytes proceeds via receptor-mediated endocytosis.** C. D. Pauza and T. M. Price
- 969 **Cross-linking of IgE-receptor complexes by rigid bivalent antigens $>200 \text{ \AA}$ in length triggers cellular degranulation.** P. M. Kane, D. Holowka, and B. Baird
- 981 **Aldolase exists in both the fluid and solid phases of cytoplasm.** L. Pagliaro and D. L. Taylor
- 993 **Long-lasting and rapid calcium changes during mitosis.** R. R. Ratan, F. R. Maxfield, and M. L. Shelanski
- 1001 **Characterization of the microtubule-activated ATPase of brain cytoplasmic dynein (MAP 1C).** H. S. Shpetner, B. M. Paschal, and R. B. Vallee
- 1011 **Fluorescent microtubules break up under illumination.** G. P. A. Vigers, M. Coue, and J. R. McIntosh
- 1025 **Laser-transected microtubules exhibit individuality of regrowth, however most free new ends of the microtubules are stable.** W. Tao, R. J. Walter, and M. W. Berns
- 1037 **Organization of the actin filament cytoskeleton in the intestinal brush border: a quantitative and qualitative immunoelectron microscope study.** D. Drenckhahn and R. Dermietzel

- 1049 Organization of desmosomal plaque proteins in cells growing at low calcium concentrations. R. Duden and W. W. Franke
- 1065 Sequence and developmental expression of mRNA coding for a gap junction protein in *Xenopus*. R. L. Gimlich, N. M. Kumar, and N. B. Gilula
- 1075 Studies on cardiac myofibrillogenesis with antibodies to titin, actin, tropomyosin, and myosin. S.-M. Wang, M. L. Greaser, E. Schultz, J. C. Bulinski, J. J.-C. Lin, and J. L. Lessard
- 1085 Posttranscriptional control of embryonic rat skeletal muscle protein synthesis. Control at the level of translation by endogenous RNA. C. R. Vanderburg and M. A. Nathanson
- 1099 The structure of the membrane systems in a novel muscle cell modified for heat production. B. A. Block and C. Franzini-Armstrong
- 1113 Acetylcholine receptor-associated 43K protein contains covalently bound myristate. L. S. Musil, C. Carr, J. B. Cohen, and J. P. Merlie
- 1123 Arrangement of the acetylcholine receptor subunits in the resting and desensitized states, determined by cryoelectron microscopy of crystallized *Torpedo* postsynaptic membranes. N. Unwin, C. Toyoshima, and E. Kubalek
- 1139 Induction of phosphorylation and cell surface redistribution of acetylcholine receptors by phorbol ester and carbamylcholine in cultured chick muscle cells. A. Ross, M. Rapuano, and J. Prives
- 1147 Metabolic stability and antigenic modulation of nicotinic acetylcholine receptors on bovine adrenal chromaffin cells. L. S. Higgins and D. K. Berg
- 1157 Cyclic AMP-dependent mechanism regulates acetylcholine receptor function on bovine adrenal chromaffin cells and discriminates between new and old receptors. L. S. Higgins and D. K. Berg
- 1167 Neuron/glia relationships observed over intervals of several months in living mice. S. L. Pomeroy and D. Purves
- 1177 N-cadherin, NCAM, and integrins promote retinal neurite outgrowth on astrocytes in vitro. K. M. Neugebauer, K. J. Tomaselli, J. Lilien, and L. F. Reichardt
- 1189 Attachment to an endogenous laminin-like protein initiates sprouting by leech neurons. M. Chiquet, L. Masuda-Nakagawa, and K. Beck
- 1199 Autocrine activities of basic fibroblast growth factor: regulation of endothelial cell movement, plasminogen activator synthesis, and DNA synthesis. Y. Sato and D. B. Rifkin
- 1207 Expression of apolipoprotein E by cultured vascular smooth muscle cells is controlled by growth state. R. A. Majack, C. K. Castle, L. V. Goodman, K. H. Weisgraber, R. W. Mahley, E. M. Shooter, and P. J. Gebicke-Haerter
- 1215 Fibronectin and vitronectin regulate the organization of their respective Arg-Gly-Asp adhesion receptors in cultured human endothelial cells. E. Dejana, S. Colella, G. Conforti, M. Abbadini, M. Gaboli, and P. C. Marchisio
- 1225 Synergism between membrane gangliosides and Arg-Gly-Asp-directed glycoprotein receptors in attachment to matrix proteins by melanoma cells. G. F. Burns, C. M. Lucas, G. W. Krissansen, J. A. Werkmeister, D. B. Scanlon, R. J. Simpson, and M. A. Vadas
- 1231 Synthetic peptide GRGDS induces dissociation of alpha-actinin and vinculin from the sites of focal contacts. S. K. Stickel and Y.-I. Wang
- 1241 Purification and characterization of mammalian integrin expressed by a rat neuronal cell line (PC12): evidence that they function as α/β heterodimeric receptors for laminin and type IV collagen. K. J. Tomaselli, C. H. Damsky, and L. F. Reichardt
- 1253 A novel synthetic peptide from the B1 chain of laminin with heparin-binding and cell adhesion-promoting activities. A. S. Charonis, A. P. N. Skubitz, G. G. Koliakos, L. Reger, J. Dege, A. M. Vogel, R. Wohlhueter, and L. T. Furcht
- 1261 Correction
- 1263 Correction
- 1265 Placement Service Notices

Cover picture: J774 cells were prelabeled with Texas red-ovalbumin, loaded with Lucifer Yellow by ATP permeabilization, and then incubated in medium for 30 min. The Texas red-labeled lysosomes and the Lucifer Yellow-labeled sequestering vacuoles are seen to be distinct from one another. See related article in this issue by Steinberg et al., pp. 887-896.