

Editorial

Boutilier, B. Editorial. 1953

Review Articles

Wheatley, D. N. Diffusion, perfusion and exclusion principles in the structural and functional organization of the living cell: reappraisal of the properties of the 'ground substance'. 1955-1961

Takagi, S. Actin-based photo-orientation movement of chloroplasts in plant cells. 1963-1969

Sugi, H. and Chaen, S. Force-velocity relationships in actin-myosin interactions causing cytoplasmic streaming in algal cells. 1971-1976

Fehrenbacher, K., Huckaba, T., Yang, H.-C., Boldogh, I. and Pon, L. Actin comet tails, endosomes and endosymbionts. 1977-1984

Chada, S. R. and Hollenbeck, P. J. Mitochondrial movement and positioning in axons: the role of growth factor signalling. 1985-1992

Collins, T. J. and Bootman, M. D. Mitochondria are morphologically heterogeneous within cells. 1993-2000

Hochachka, P. W. Intracellular convection, homeostasis and metabolic regulation. 2001-2009

Wittenberg, J. B. and Wittenberg, B. A. Myoglobin function reassessed. 2011-2020

Suarez, R. K. Shaken and stirred: muscle structure and metabolism. 2021-2029

Sullivan, D. T., MacIntyre, R., Fuda, N., Fiori, J., Barrilla, J. and Ramizel, L. Analysis of glycolytic enzyme co-localization in *Drosophila* flight muscle. 2031-2038

Dzeja, P. P. and Terzic, A. Phosphotransfer networks and cellular energetics. 2039-2047

Wilson, J. E. Isozymes of mammalian hexokinase: structure, subcellular localization and metabolic function. 2049-2057

Andrienko, T., Kuznetsov, A. V., Kaambre, T., Usson, Y., Oroasco, A., Appaix, F., Tiivel, T., Sikk, P., Vendelin, M., Margreiter, R. and Saks, V. A. Metabolic consequences of functional complexes of mitochondria, myofibrils and sarcoplasmic reticulum in muscle cells. 2059-2072

Kholodenko, B. N. Four-dimensional organization of protein kinase signaling cascades: the roles of diffusion, endocytosis and molecular motors. 2073-2082

Solomonson, L. P., Flam, B. R., Pendleton, L. C., Goodwin, B. L. and Eichler, D. C. The caveolar nitric oxide synthase/arginine regeneration system for NO production in endothelial cells. 2083-2087