

Contents

Volume 200 (2) 1997

Brand, M. D. Regulation analysis of energy metabolism	193–202	Supek, F., Supekova, L., Nelson, H. and Nelson, N. Function of metal-ion homeostasis in the cell division cycle, mitochondrial protein processing, sensitivity to mycobacterial infection and brain function	321–330
Harvey, W. R. and Wieczorek, H. Animal plasma membrane energization by chemiosmotic H ⁺ V-ATPases	203–216	Nelson, N. Homeostasis of energy conduction, neurotransmitters, cytotoxic compounds and metal ions	331–333
Fillingame, R. H. Coupling H ⁺ transport and ATP synthesis in F ₁ F ₀ -ATP synthases: glimpses of interacting parts in a dynamic molecular machine	217–224	Schuldiner, S., Lebendiker, M. and Yerushalmi, H. EmrE, the smallest ion-coupled transporter, provides a unique paradigm for structure–function studies	335–341
Merzendorfer, H., Gräf, R., Huss, M., Harvey, W. R. and Wieczorek, H. Regulation of proton-translocating V-ATPases	225–235	Cossins, A. R. and Gibson, J. S. Volume-sensitive transport systems and volume homeostasis in vertebrate red blood cells	343–352
Dow, J. A. T., Davies, S. A., Guo, Y., Graham, S., Finbow, M. E. and Kaiser, K. Molecular genetic analysis of V-ATPase function in <i>Drosophila melanogaster</i>	237–245	Malapert, M., Guizouarn, H., Fievet, B., Jahns, R., Garcia-Romeu, F., Motais, R. and Borgese, F. Regulation of Na ⁺ /H ⁺ antiporter in trout red blood cells	353–360
Ehrenfeld, J. and Klein, U. The key role of the H ⁺ V-ATPase in acid–base balance and Na ⁺ transport processes in frog skin	247–256	Motais, R., Fiévet, B., Borgese, F. and Garcia-Romeu, F. Association of the band 3 protein with a volume-activated, anion and amino acid channel: a molecular approach	361–367
Brown, D., Smith, P. J. S. and Breton, S. Role of V-ATPase-rich cells in acidification of the male reproductive tract	257–262	Nikinmaa, M. Oxygen and carbon dioxide transport in vertebrate erythrocytes: an evolutionary change in the role of membrane transport	369–380
Boron, W. F., Hediger, M. A., Boulpaep, E. L. and Romero, M. F. The renal electrogenic Na ⁺ :HCO ₃ ⁻ cotransporter	263–268	Hochachka, P. W. and McClelland, G. B. Cellular metabolic homeostasis during large-scale change in ATP turnover rates in muscles	381–386
Castagna, M., Shayakul, C., Trotti, D., Sacchi, V. F., Harvey, W. R. and Hediger, M. A. Molecular characteristics of mammalian and insect amino acid transporters: implications for amino acid homeostasis	269–286	Boutillier, R. G., Donohoe, P. H., Tattersall, G. J. and West, T. G. Hypometabolic homeostasis in overwintering aquatic amphibians	387–400
Wright, E. M., Hirsch, J. R., Loo, D. D. F. and Zampighi, G. A. Regulation of Na ⁺ /glucose cotransporters	287–293	Takahashi, M., Billups, B., Rossi, D., Sarantis, M., Hamann, M. and Attwell, D. The role of glutamate transporters in glutamate homeostasis in the brain	401–409
Hebert, S. C., Brown, E. M. and Harris, H. W. Role of the Ca ²⁺ -sensing receptor in divalent mineral ion homeostasis	295–302	Lutz, P. L. and Nilsson, G. E. Contrasting strategies for anoxic brain survival – glycolysis up or down	411–419
Shuttleworth, T. J. Intracellular Ca ²⁺ signalling in secretory cells	303–314		
Berridge, M. J. Elementary and global aspects of calcium signalling	315–319		