

## CONTENTS

	Page
<b>Zanotto, F. P. and Wheatly, M. G.</b> The effect of ambient pH on electrolyte regulation during the postmolt period in freshwater crayfish <i>Procambarus clarkii</i> .....	1
<b>Bailey, W. J., Withers, P. C., Endersby, M. and Gaull, K.</b> The energetic costs of calling in the bushcricket <i>Requena verticalis</i> (Orthoptera: Tettigoniidae).....	21
<b>Wells, D. J.</b> Muscle performance in hovering hummingbirds .....	39
<b>Wells, D. J.</b> Ecological correlates of hovering flight of hummingbirds .....	59
<b>Boutilier, R. G., Ferguson, R. A., Henry, R. P. and Tufts, B. L.</b> Exhaustive exercise in the sea lamprey ( <i>Petromyzon marinus</i> ): relationship between anaerobic metabolism and intracellular acid-base balance.....	71
<b>Azuma, M., Toshiaki, I. and Seki, T.</b> Retinals and retinols induced by estrogen in the blood plasma of <i>Xenopus laevis</i> .....	89
<b>Webb, P. W.</b> The effect of solid and porous channel walls on steady swimming of steelhead trout <i>Oncorhynchus mykiss</i> .....	97
<b>Mair, N., Moser, H. and Fresser, F.</b> Contribution of the $\text{Na}^+/\text{H}^+$ antiporter to the regulation of intracellular pH in a crayfish stretch receptor neurone .....	109
<b>Stengl, M.</b> Intracellular-messenger-mediated cation channels in cultured olfactory receptor neurons .....	125
<b>Hontoria, F., Crowe, J. H., Crowe, L. M. and Amat, F.</b> Metabolic heat production by <i>Artemia</i> embryos under anoxic conditions .....	149
<b>Tiihonen, K. and Nikinmaa, M.</b> Membrane permeability and utilization of L-lactate and pyruvate in carp red blood cells .....	161
<b>Faure, P. A., Fullard, J. H. and Dawson, J. W.</b> The gleaning attacks of the northern long-eared bat, <i>Myotis septentrionalis</i> , are relatively inaudible to moths.....	173
<b>Fritzsche, R., Reid, S. G., Thomas, S. and Perry, S. F.</b> Serotonin-mediated release of catecholamines in the rainbow trout <i>Oncorhynchus mykiss</i> .....	191
<b>Lesser, W. and Greenberg, M. J.</b> Cardiac regulation by endogenous small cardioactive peptides and FMRFamide-related peptides in the snail <i>Helix aspersa</i> .....	205
<b>Audsley, N., Coast, G. M. and Schooley, D. A.</b> The effects of <i>Manduca sexta</i> diuretic hormone on fluid transport by the Malpighian tubules and cryptonephric complex of <i>Manduca sexta</i> .....	231
<b>SHORT COMMUNICATIONS</b>	
<b>Birchard, G. F. and Reiber, C. L.</b> A comparison of avian and reptilian chorioallantoic vascular density .....	245
<b>Ferguson, G. P., Pieneman, A. W., Jansen, R. F. and Ter Maat, A.</b> Neuronal feedback in egg-laying behaviour of the pond snail <i>Lymnaea stagnalis</i> .....	251
<b>Churchill, D. and Caveney, S.</b> Isolation of epidermal cell pairs from an insect, <i>Tenebrio molitor</i> , for dual whole-cell recording of large-conductance gap-junctional channels.....	261
<b>Canals, P., Gallardo, M. A. and Sánchez, J.</b> Effect of amino acid deprivation on L-alanine uptake through the ASC system in freshly isolated trout hepatocytes .....	269
<b>Drobne, D. and Fajgelj, A.</b> Use of Tc-99m-pertechnetate to follow liquid water uptake by <i>Porcellio scaber</i> .....	275
<b>Information about the Journal</b>	