ERRATA

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Ni^{2+}, A NEW INHIBITOR OF MITOCHONDRIAL CALCIUM TRANSPORT

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Key words: Ni^{2+} effect; Ca^{2+} transport; Respiration; Volume change; (Rat liver mitochondria)

1. The effect of Ni^{2+} on respiration, volume changes and Ca^{2+} movements was investigated in rat liver mitochondria. 2. Ni^{2+} inhibited Ca^{2+} uptake into respiring mitochondria, Ca^{2+}-stimulated respiration and swelling in Ca^{2+} salts, whereas it did not inhibit either state 4 and DNP-stimulated respiration, or swelling in K^+ salt in the presence of valinomycin. 3. The inhibitory concentration of Ni^{2+} depended strongly on the applied Ca^{2+} concentration. As revealed by direct methods, 50% inhibition of Ca^{2+} influx was achieved by approx. 2-fold excess of Ni^{2+}. 4. If added to Ca^{2+}-loaded mitochondria, Ni^{2+} gave rise to slow Ca^{2+} release and inhibited uncoupler-induced efflux slightly. 5. It is concluded that Ni^{2+} is a potent inhibitor of mitochondrial Ca^{2+} transport. Ca^{2+} influx is far more sensitive to inhibition than Ca^{2+} efflux.

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pp. 452–465, for 'direct continuous' read 'direct background'
p. 461, left-hand column, line 7 from bottom, for '22' read '23'
p. 462, right-hand column, line 31, omit '$(1/\omega)$'
line 32, for '10 μM' read '$(10/\omega)$ μM'
p. 463, Eqn. A7 should read:

$$[Z]=[\tilde{Z}]_0 \cdot e^{-\sqrt{\omega/2D}\cdot x} \cos\left(\omega t - \sqrt{\frac{\omega}{2D}} \cdot x - \delta\right)$$

p. 463, right-hand column, line 21, the equation should read:

$$2\sqrt{\frac{D}{D_g}} \Big/ \left(K \cdot \sqrt{\frac{D}{D_g}} + 1\right)$$

p. 463, right-hand column, Eqn. A8, for '$+\delta$' read '$-\delta$'
line 7 from bottom, for '8' read 'A8'
p. 464, right-hand column, line 5, for '$3 \cdot 10^4$' read '$3 \cdot 10^5$'
p. 464, right-hand column, line 8, for '$\sqrt{\omega}/2D \cdot l$' read '$\sqrt{\omega/2D} \cdot l$'
line 10, for '$k_i/\sqrt{k_i^2+\omega^2}$' read '$k_i/\sqrt{k_i^2+\omega^2}$'
line 21, for '10^{-8}' read '$0.5 \cdot 10^{-8}$'
line 23, for '10^4' read '10^5'
line 24, for '60' read '360'
p. 465, Ref. 23, for '(1981)' read '(1881)'