



Corrigendum

Corrigendum to “Does a cell perform isoelectric focusing?”
[BioSystems 24 (1990) 127]

Jaroslav Flegr

Institute of Molecular Genetics, Czechoslovak Academy of Sciences, Flemingovo n. 2, 166 37 Prague 6 (Czechoslovakia)

Received 21 November 1995

The Author regrets that there was a serious numerical error in the above paper. The correct value for the resistance of *S. cerevisiae* interior is $1.85 \cdot 10^{10} \Omega$, i.e. approximately eight orders of magnitude higher than originally claimed. If the correct value is substituted into Eq. 1, we find that *S. cerevisiae* cell can maintain an intracellular difference of electric potential equal to about 0.29 V which represents an electric field of about 1.5 kV/cm. The correct value suggests that the cell can achieve highly effective isoelectric focusing of intracellular proteins and organelles by using a negligible fraction of its energy reserves.

The author thanks Dr. Stephen Bolsover of the University College London for finding the error.