

Corrections

Quantifying the Ion Selectivity of the Ca^{2+} Site in Photosystem II: Evidence for Direct Involvement of Ca^{2+} in O_2 Formation, by John S. Vrettos, Daniel A. Stone, and Gary W. Brudvig*, Volume 40, Number 26, July 3, 2001, pages 7937–7945.

Page 7940. Because of a keystroke error in the spreadsheet used to calculate the values of ΔG_B reported in Table 1, the values listed for Ca^{2+} -Ex-depleted PSII were incorrect. The correct entries are given below. The changes do not affect the conclusions of the paper. We thank J. Lewin for pointing out the error.

Table 1: Inhibition Constants and Free Energy of Binding for Metal Ion Inhibitors of PSII

metal ion	ΔG_B (kcal/mol) ^a
Mg^{2+}	-3.47 ± 0.24
Ni^{2+}	-3.78 ± 0.43
Cu^{2+}	-4.13 ± 0.29
Co^{2+}	-4.03 ± 0.27
Cd^{2+}	-5.24 ± 0.58
Ca^{2+}	-5.68 ± 0.54
Sr^{2+}	-5.14 ± 0.28
Ba^{2+}	0
Lu^{3+}	-4.44 ± 0.34 (-5.57 ± 1.19)
Dy^{3+}	-5.36 ± 0.42 (-5.65 ± 0.53)
Gd^{3+}	-5.40 ± 0.43 (-5.59 ± 0.60)
Pr^{3+}	-5.56 ± 0.55 (-6.22 ± 0.66)
La^{3+}	-5.69 ± 0.50 (-6.19 ± 1.26)

^a The entries are for Ca^{2+} -Ex-depleted PSII; numbers in parentheses are for PSII membranes.

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