Supplementary Materials: Misinterpretations in Evaluating Interactions of Vanadium Complexes with Proteins and Other Biological Targets

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Assuming that [BSA] = 40 μM, addition of [V_{IV}O(phen)_2^{2+}] in the concentration range 1-100 μM and the formation of V_{IV}O-BSA species, but at this stage not considering the binding of V_{IV}O-phen complexes to BSA, the calculated species distribution diagram (Fig. SM-1).

(A)
Figure S1. Species distribution diagrams of the system $\text{V}^{IV}\text{O}^{2+}+$phen+BSA at pH=7 (range of $C_V$ values: 1 to 100 µM) calculated using the HySS program, taking a molar ratio $\text{V}^{IV}\text{O}:$phen of 1:2 and $[\text{BSA}] = 40$ µM. The binding of phen to BSA is taken into account with a binding constant of $5.7 \times 10^4$, but in this figure the formation of $\text{V}^{IV}\text{O}$-phen-BSA species is not considered. (A): % of formation of vanadium containing species; (B) % of formation of phen containing species.