SUPPORTING INFORMATION TO:

Loss of electrostatic interactions causes increase of dynamics within the plastocyanin-cytochrome $f$ complex

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**Figure S1.** Plot of the average violation of all experimental distances versus the ensemble percentage included in the restraints for the calculations. Error bars represent $2 \times \text{SD}$ of the average violations obtained from three independent calculations performed with $N=7$ and $f_2=0$.

**Figure S2.** Comparison of the encounter complexes of $N$-$Ph$ complex (A) and $N$-$N$ complex (B). Cyt $f$ is shown as a white surface and spin labels as green sticks. Pc CoMs are represented by spheres. Pc CoMs are color-coded to indicate the distance between Cu in Pc and Fe in Cyt $f$, increasing from red to blue (red $\leq 16$ Å; orange $\leq 18$ Å; yellow $\leq 20$ Å; green $\leq 22$ Å; blue $> 22$ Å).