

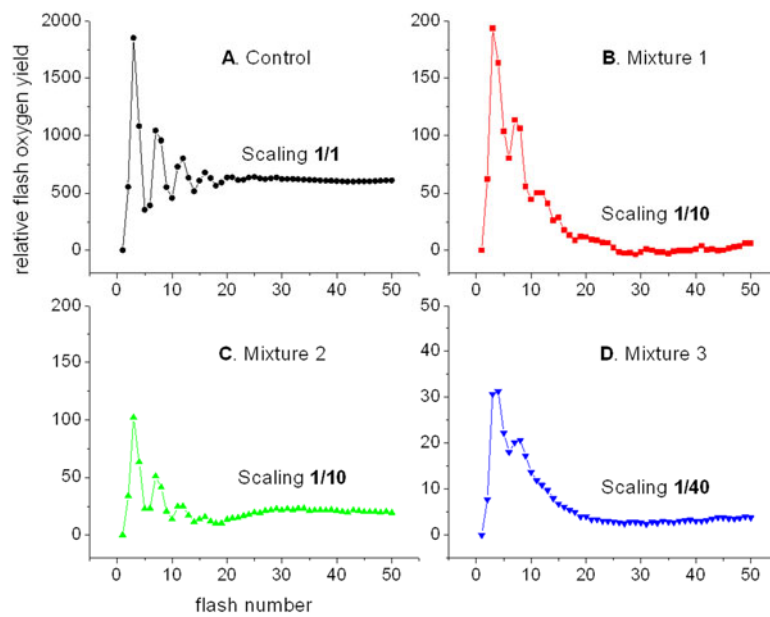


Fig. 1S. Higher-resolution oscillations from Fig. 1B. A) Native control; B) Treated by Mixture 1 (formate/NaCl); C) Treated by Mixture 2 (arginine/NaCl); D) Treated by Mixture 3 (arginine/NaCl/MgCl₂).

Residual steady-state flash oxygen yield (relative):

Control	641.8
Mixture 1	24.4
Mixture 2	22.6
Mixture 3	6.95

Some oscillations are retained after all treatments, but light causes rapid (reversible) inactivation. Mixture 2 (most specific for the “structural” role) produces the least of this temporary inactivation effect. Mixture 1, formate (known to be specific for the non-heme iron site as well), generates high recombination overlaying functional WOC oscillations. Mixture 3 (most specific for the donor-side function) also damps WOC function.