

TABLE IV

CALCULATED DISTANCES BETWEEN PHOTOSYNTHETIC ELECTRON-TRANSPORT COMPLEXES AND DIFFUSION TIME OF PQH₂

Cyt, cytochrome.

	Area for electron-transport chain (nm ² /chain)	PS II → PS I distance (nm)	PS II → Cyt b ₆ f distance (nm)	PQH ₂ ^a diffusion time (ms)
HL	1620	29.5	15	2.4
LL	790	20.6	10.3	1.1

^a Estimated from Einstein equation, $d^2 = Dt$, where d is the distance between RC II and Cyt b_6f and D is the diffusion coefficient $-10^{-9} \text{ cm}^2 \cdot \text{s}^{-1}$ [25].