Table S4. Table of symbols used in the equations.

Symbol	Description
X	Set of $N$ modeled structures $\{X_k\}$ .
$X_k$	Individual conformation of multiple donors and acceptors in a sample.
$w_k$	Proportion of an individual conformation, $k$ , in the total population.
$k_{da}$	Ratio of the excitation rates of donor to acceptor at the excitation wavelength of donor.
$I_{da}$	Ratio of CFP and YFP fluorescence intensities in the FRET channel when each is expressed at equal levels in separate cells at the excitation wavelength of donor.
$I_{da}^{exp}$	Measured value of $I_{da}$ .
$\sigma_{I_{da}^{exp}}$	Standard deviation of the measured $I_{da}^{exp}$ .
$k_{ij}^{ET}$	Rate of energy transfer between donor <i>i</i> and acceptor <i>j</i> .
$k^F$	Rates of fluorescence. Subscripts "d" or "a" refer to donor or acceptor.
$k^X$	Rates of excitation. Subscripts "d" or "a" refer to donor or acceptor.
$F_i$	Term that quantifies the energy transferred from donor <i>i</i> to all the acceptors.
$R_0$	Forster radius.
$R_{ij}$	Distance between donor <i>i</i> and acceptor <i>j</i> .
g(X)	A function describing the impact of energy transfer on donor fluorescence.
[D]	Concentration of donor.
[A]	Concentration of acceptor.
$k_d^{XF}$	Ratio of the rate of donor excitation to the rate of donor fluorescence at the excitation wavelength of donor.
$Q$ $I^F$	Quantum yield. Subscripts "d" or "a" refer to donor or acceptor.
$I^{\overline{F}}$	Fluorescence intensity. Subscripts "d" or "a" refer to donor or acceptor.
$d_n$	Data point <i>n</i> .
$\sigma_n$	Uncertainty for data point <i>n</i> .
$\sigma_0$	Typical uncertainty of dataset $\{d_n\}$ .
S	Spillover factor. Subscripts "d" or "a" refer to donor or acceptor.