Electronic Supporting Information (ESI)

Hydrogen-bonding modulation of excited-state properties of flavins in a model of aqueous confined environment

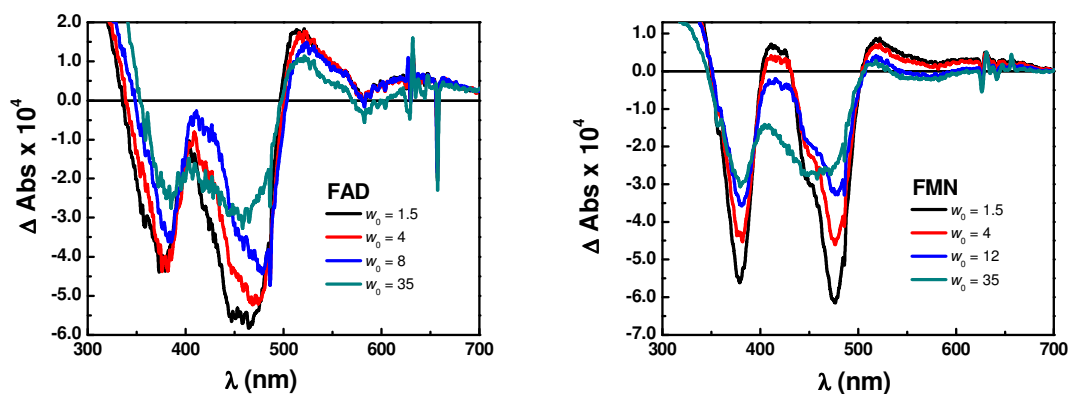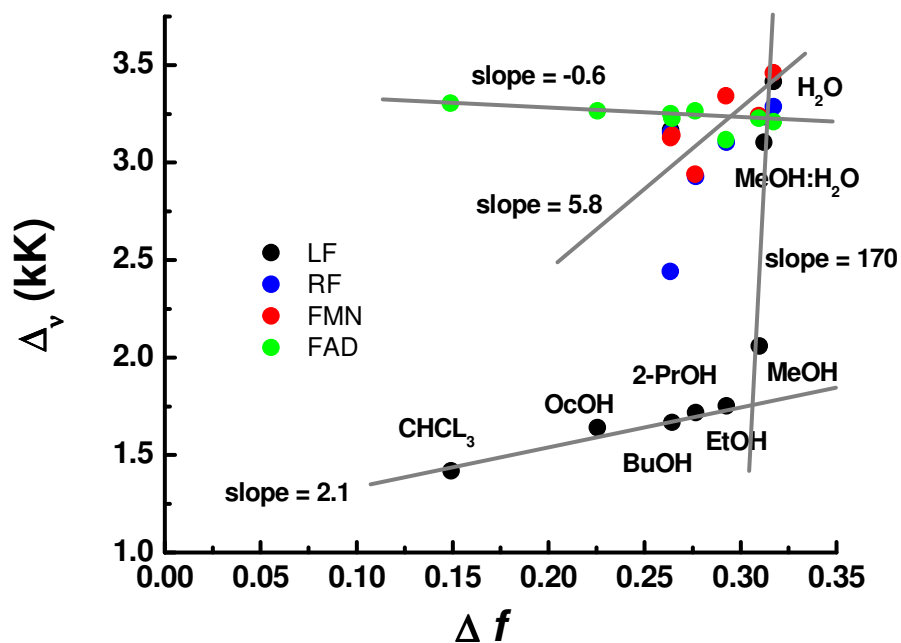Lorena Valle, Faustino E. Morán Vieyra, and Claudio D. Borsarelli*

Figure S1: Difference absorption spectra (ΔAbs) of 7 μM FAD and FMN in 0.1 M AOT

RM at different w_o values

Mataga- Lippert eq.:

$$\Delta\nu = \frac{2\Delta f}{hca^3}(\mu_E - \mu_G) + cte \text{ , with } \Delta f = \frac{\varepsilon - 1}{2\varepsilon + 1} - \frac{n^2 - 1}{2n - 1}$$

Figure S2: Mattaga-Lippert plots of flavins in different homogeneous protic solvents:

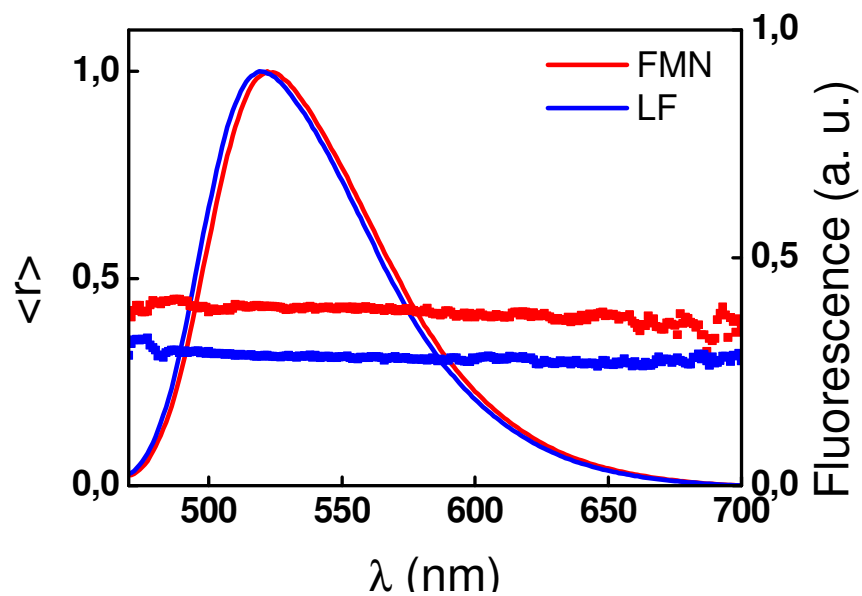H_2O, methanol, ethanol, 1-butanol, 1-octanol, 2-propanol, choloroform.

Figure S3: steady-state fluorescence anisotropy of 7 µM FMN and LF in glycerol at 25°

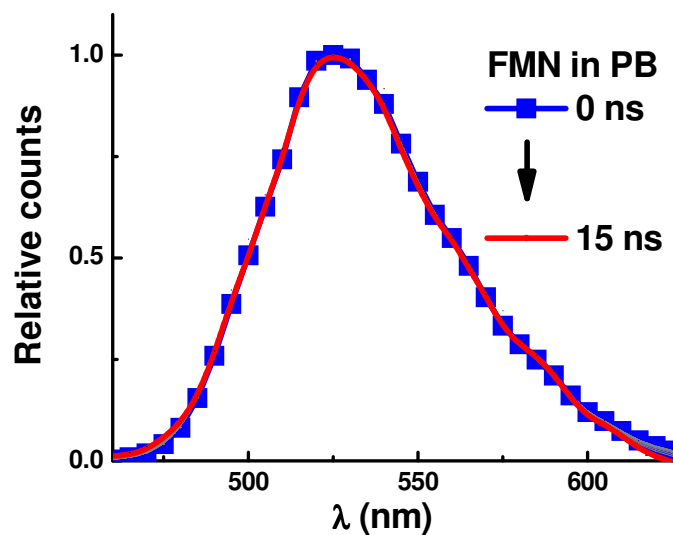C (excitation at 450nm, excitation and emission slits of 5 nm)

Figure S4: normalized time-resolved emission spectra (TRES) between 0 and 15 ns of 7

µM FMN in 10 mM phosphate (PB) at pH 7. TRES were coincident with the steady-state
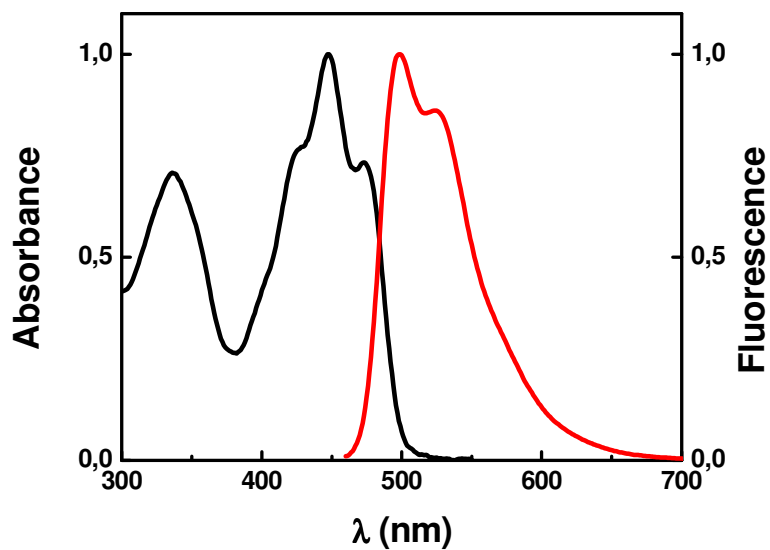
spectrum in PB solutions.

Figure S5: absorbance and fluorescence spectra of 7 μM LF in toluene at 25 °C

(excitation at 450nm, excitation and emission slits of 5 nm)