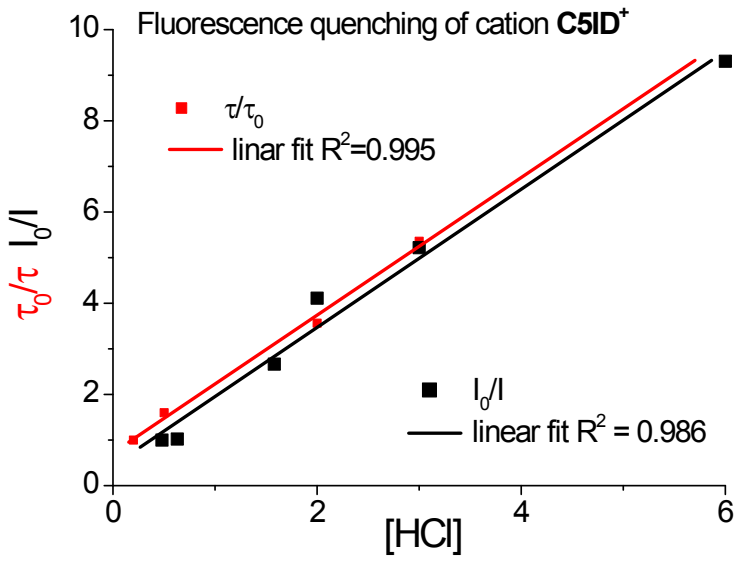

Figure 1s. Fluorescence quenching in steady-state and time-resolved experiment, on the basis of Stern-Volmer relations for **C5ID**$^+$ causing by H^+; correlation coefficients (R^2) 0.986 for steady-state measurements; 0.995 for time-resolved measurement. Lifetime measurement were performed using λ_{exc} = 375 nm and observed at λ_{em} = 420 nm.

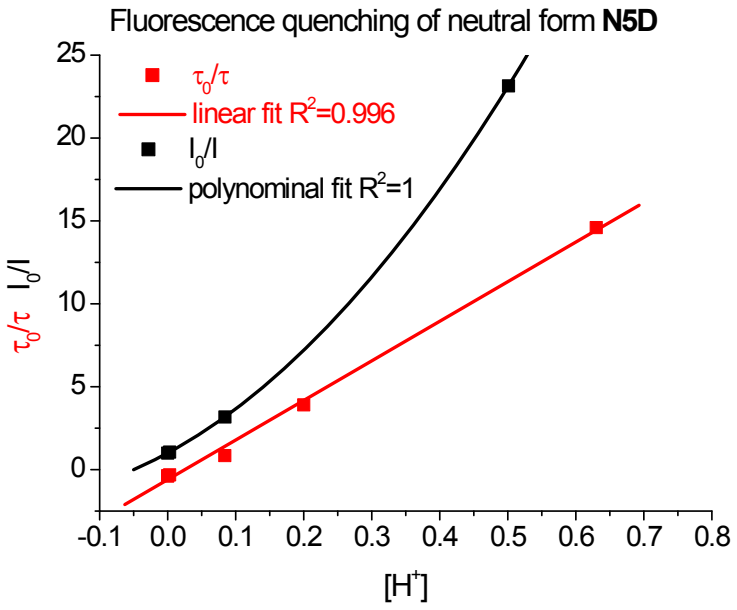

Figure 2s. Fluorescence quenching in steady-state and time-resolved experiment for **N5D** causing by H^+; correlation coefficients (R^2) 1 for steady-state measurements; 0.996 for time-resolved measurement. Lifetime measurement were performed using λ_{exc} = 375 nm and observed at λ_{em} = 420 nm.

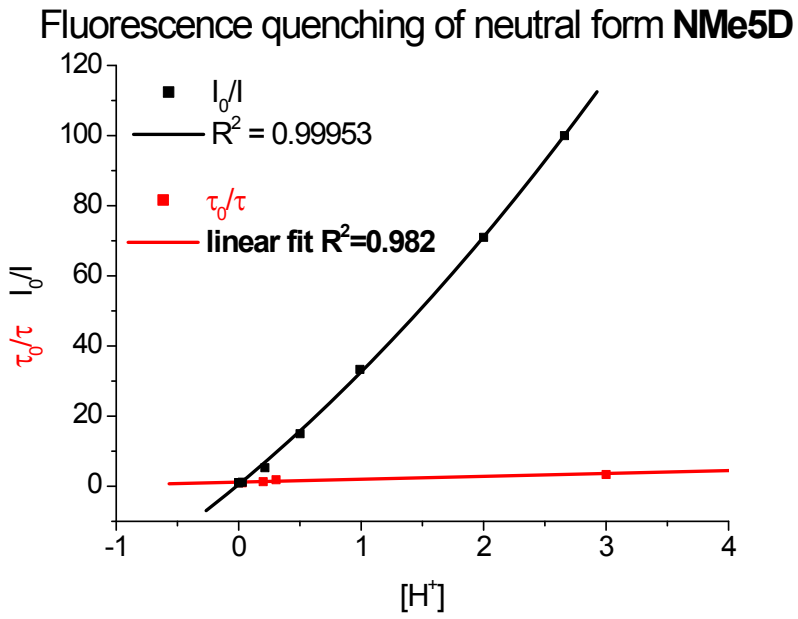

Figure 3s. Fluorescence quenching in steady-state and time-resolved experiment for **NMe5D** causing by H^+; correlation coefficients (R^2) 0.994 for steady-state measurements; 0.982 for time-resolved measurement. Lifetime measurement were performed using λ_{exc} = 375 nm and observed at λ_{em} = 430 nm.

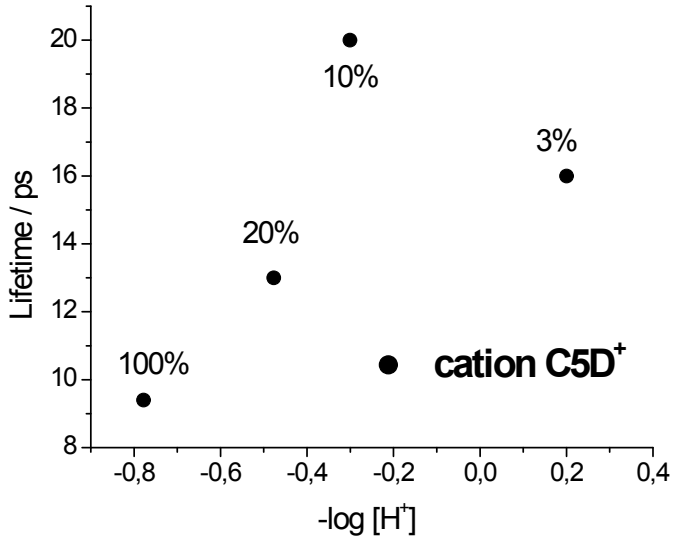

Figure 4s. A plot of lifetime of alloxazinic cation of 5-DAll (**C5D**$^{+}$), vs. – log [H^{+}] can be seen on Figure 4s.