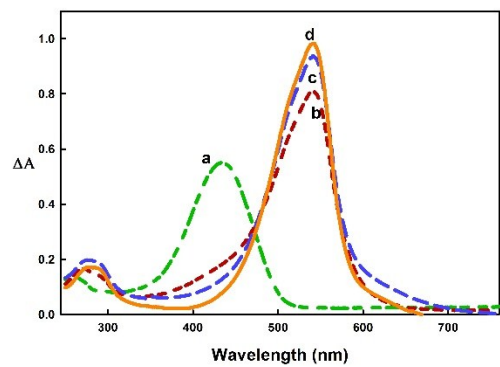**Figure S1.** Photograph of the software written (in MATLAB) for image analysis

a: pH=5, b: pH=7.4, c: pH=8, d: pH=9.3

Figure S2. Changes in the absorbance spectra of the studied dye at different pH media