

Synthesis and Photo-Physical Properties of 5'-6-Locked Fluorescent Nucleosides

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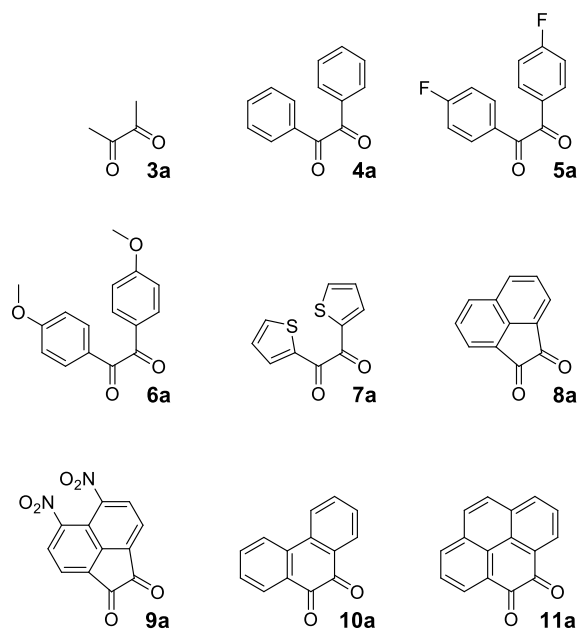


Figure S1. Structures of diketones **3a-11a**.

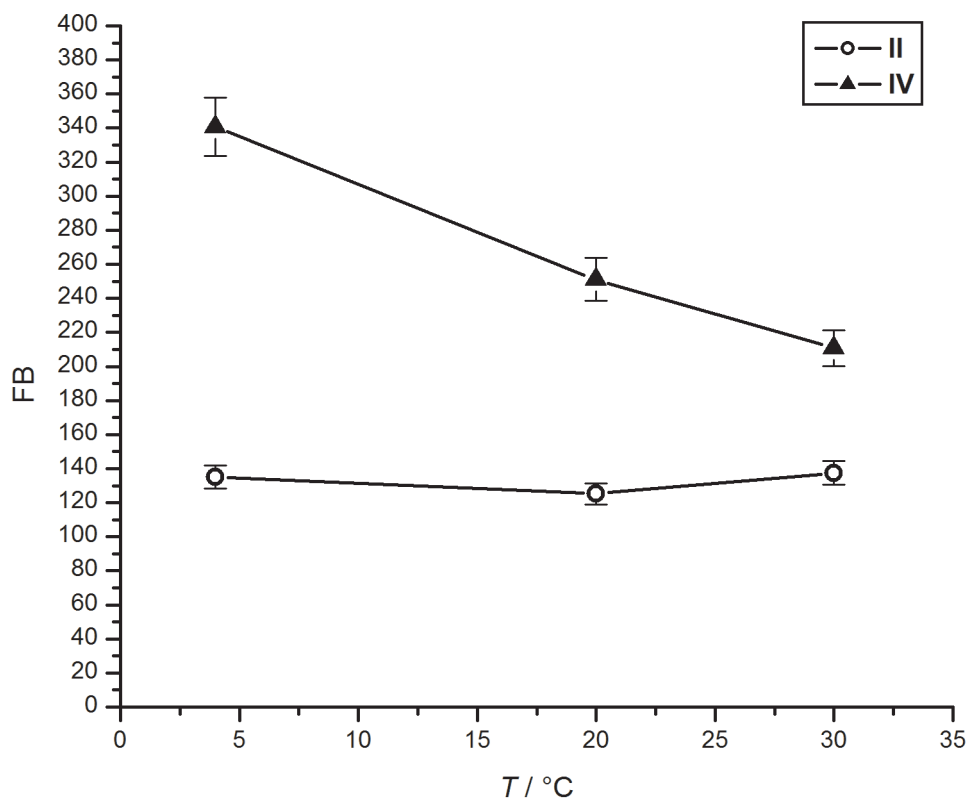


Figure S2. Temperature dependence of the fluorescence brightness of nucleoside **10** in **II** and **IV** in 30% ethylene glycol in aqueous buffer.

CD-spectra

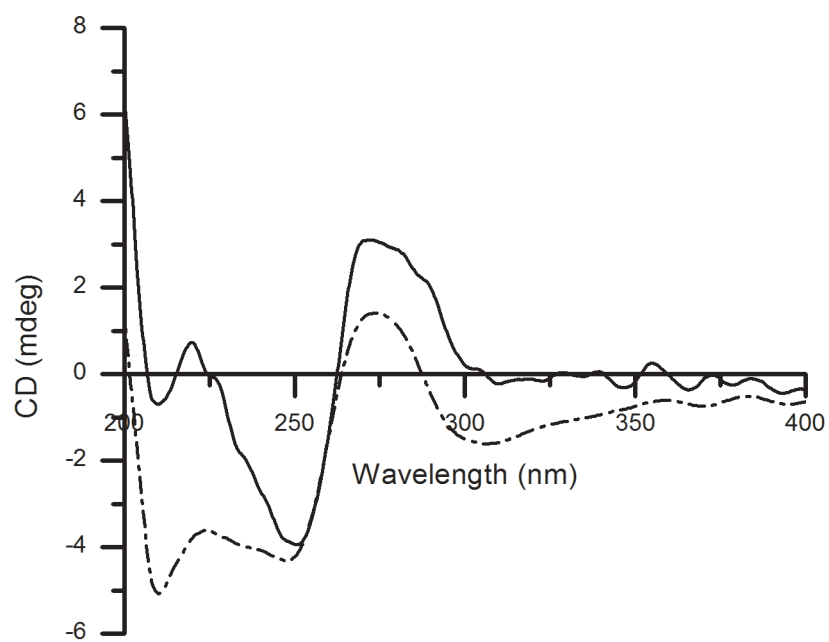


Figure S3. CD spectra of modified helix II (solid line) and the corresponding unmodified helix (dashed line).

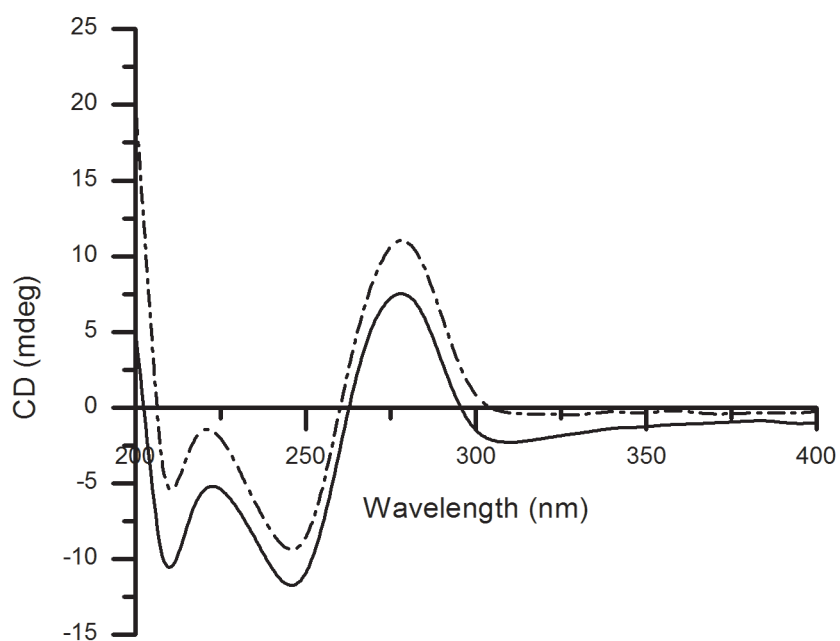


Figure S4. CD spectra of modified helix IV (solid line) and the corresponding unmodified helix (dashed line).

HPLC-traces

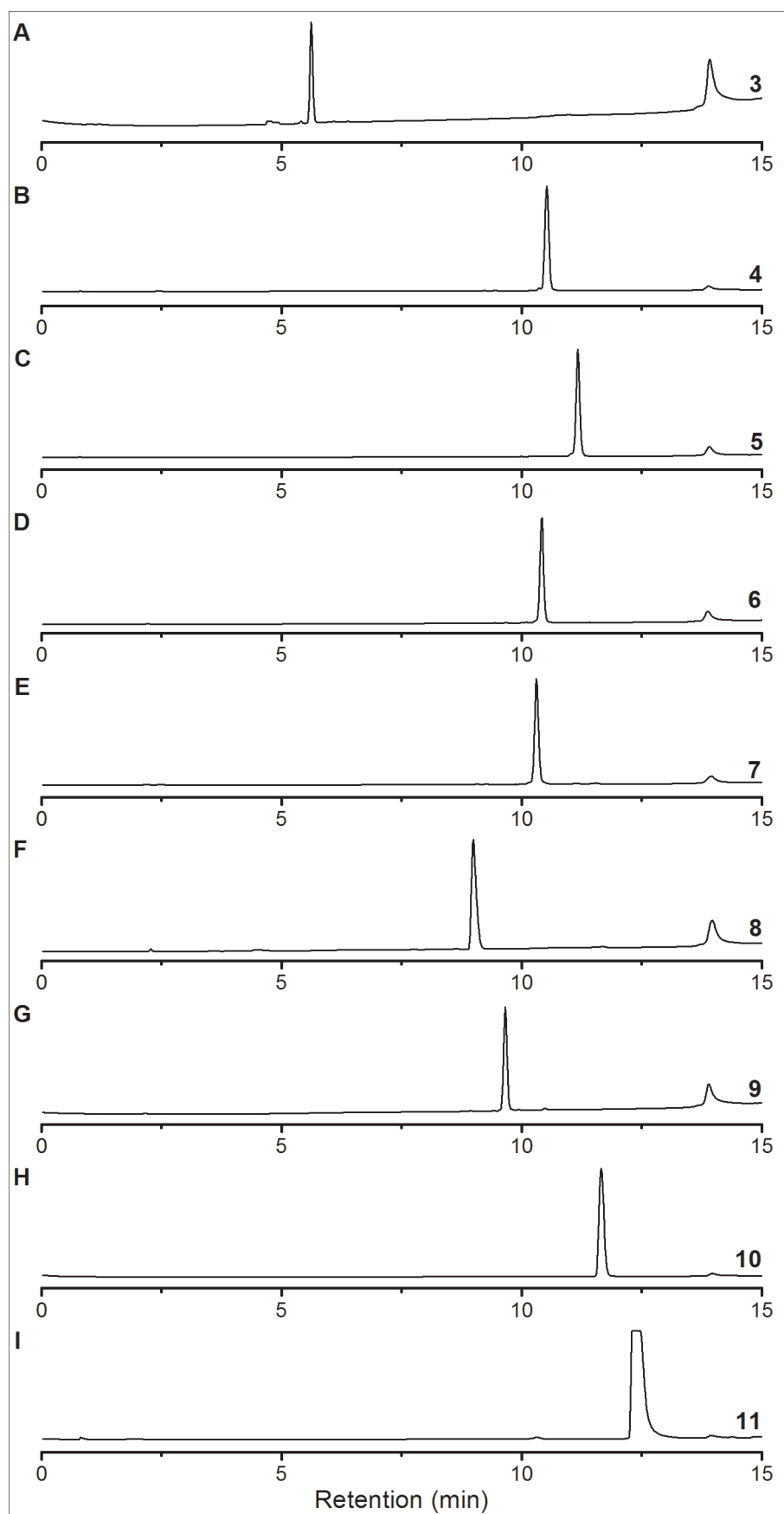


Figure S5. HPLC-traces for nucleosides 3-11. The small peak at around 14 minutes is an artifact also visible in blank runs.

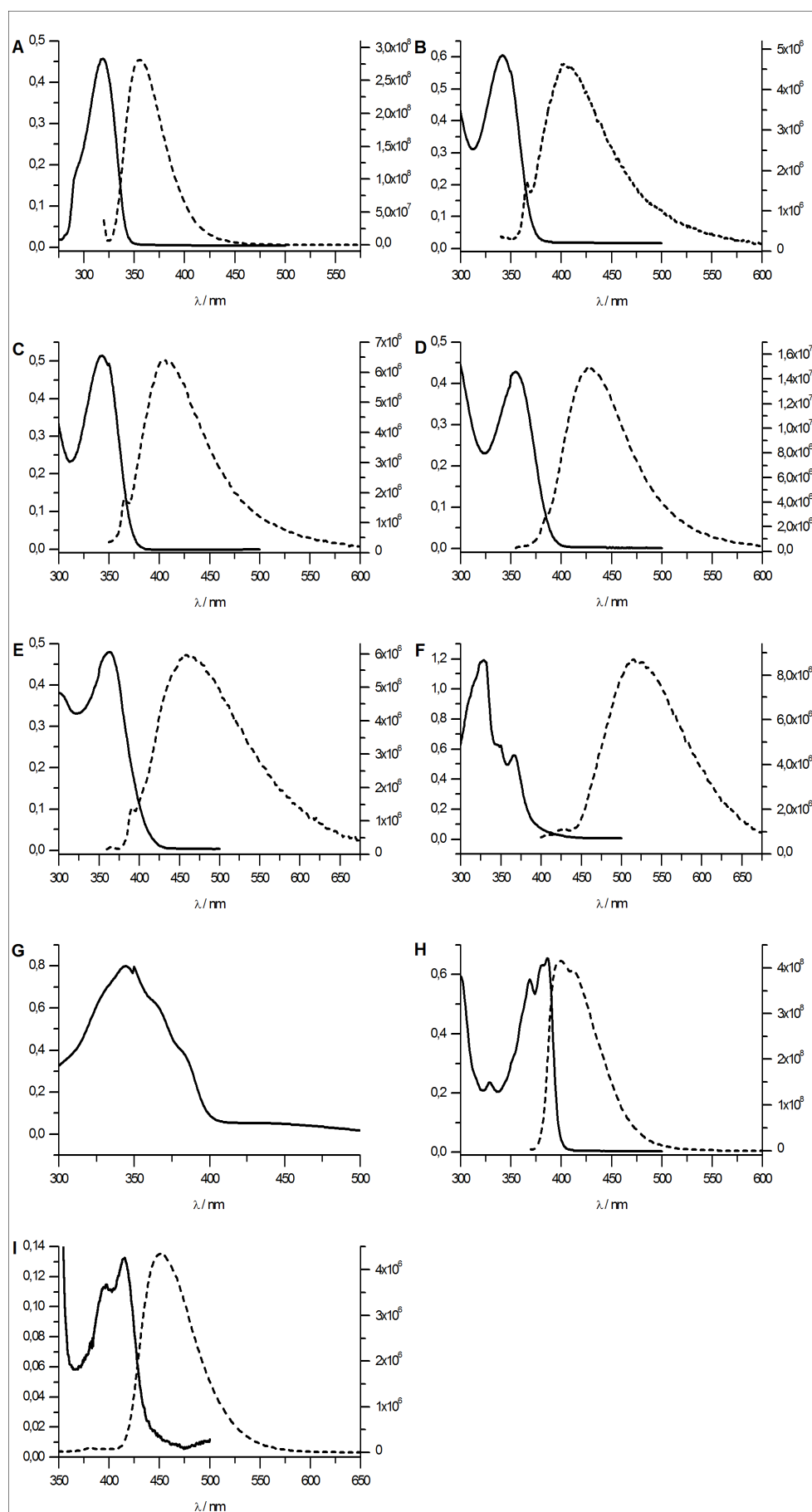


Figure S6. A-I) UV-Vis (solid lines) and fluorescence (broken lines) spectra for nucleosides **3-11** from Figure 3 in the main text, shown here with y-axes. Spectra recorded in THF. Left y-axis refers to absorption, right y-axis to emission.

NMR-spectra

