## **Supporting Information**

## Solvent based selectivity in the synthesis of di(2-aryl-1*H*-3-indolyl)sulfides and 1-aryl-2-[(2-aryl-1*H*-3-indolyl)sulfanyl]-1-ethanones

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## **Experimental**

## 1.1 General Methods

All melting points reported in this work were measured in open capillaries. The  $^{1}$ H and  $^{13}$ C NMR spectra have been measured at 300 and 75 MHz respectively using Bruker 300 MHz (Avance) instrument in CDCl<sub>3</sub> using tetramethylsilane (TMS) as internal standard. Chemical shifts are reported as  $\delta$  values (ppm). All one- and two-dimensional NMR spectra were obtained using standard Bruker software throughout. Elemental analyses were performed on a Perkin Elmer 2400 Series II Elemental CHNS analyzer. IR spectra were recorded on a JASCO FT IR instrument (KBr pellet).

1         ¹H NMR Spectrum 3b (recorded in Acetone d <sub>6</sub> )         4           2         ¹H NMR Spectrum 3b (expanded)         4           3         ¹³C NMR Spectrum of 3b (recorded in Acetone d <sub>6</sub> )         5           4         DEPT-135 Spectrum of 3b         6           5         H,H-COSY Spectrum of 3b         6           6         H,H-COSY Spectrum of 3b         7           8         HMBC Spectrum of 3b (expanded)         7           9         C,H-COSY Spectrum of 3b (expanded)         8           10         C,H-COSY Spectrum of 3b (expanded)         8           11         ¹H NMR Spectrum of 3b (expanded)         9           12         ¹H NMR Spectrum of 4d (expanded)         9           13         ¹³C NMR Spectrum of 4d (recorded in Acetone d <sub>6</sub> )         10           14         DEPT-135 Spectrum of 4d         10           15         H,H-COSY Spectrum of 4d (expanded)         11           16         H,H-COSY Spectrum of 4d (expanded)         12           18         HMBC Spectrum of 4d (expanded)         12           19         C,H-COSY Spectrum of 4d (expanded)         13           20         C,H-COSY Spectrum of 7d (expanded)         14           21         ¹H NMR Spectrum of 7d (expanded)	No.	List of Figures	Page
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