## **Supporting Information**

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## Synthesis and characterization of novel mono, bis and tris heteroaryl chalcone derivatives of 1,3,5-trimethoxybenzene

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Figure S1: <sup>1</sup>H-NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of 5



Figure S2: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 5



Figure S3: <sup>1</sup>H-NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of 6



Figure S4: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 6





Figure S5: <sup>1</sup>H-NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of 9



Figure S6: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 9



Figure S7: <sup>1</sup>H-NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of 10



Figure S8: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 10





Figure S9: <sup>1</sup>H-NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of 11



Figure S10: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 11





Figure S12: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 12



Figure S13: <sup>1</sup>H-NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of 13



Figure S14: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 13





Figure S15: <sup>1</sup>H-NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of 14



Figure S16: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 14





Figure S17: <sup>1</sup>H-NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of 15



Figure S18: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 15



Figure S19: <sup>1</sup>H-NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of 16



Figure S20: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 16





Figure S21: <sup>1</sup>H-NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of 17



Figure S22: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 17





Figure S23: <sup>1</sup>H-NMR (400 MHz, CDCl<sub>3</sub>) Spectrum of 18



Figure S24: <sup>13</sup>C-NMR (100 MHz, CDCl<sub>3</sub>) Spectrum of 18